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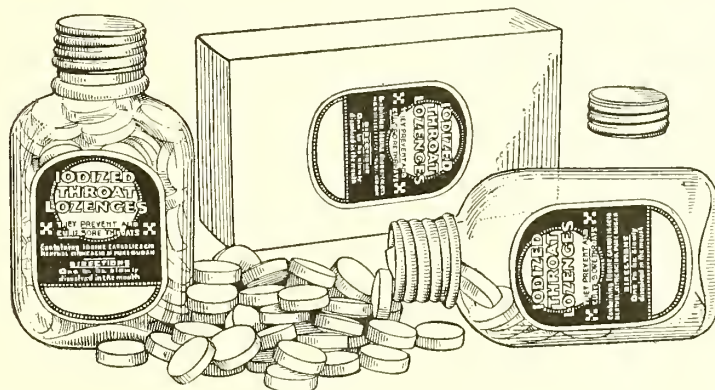
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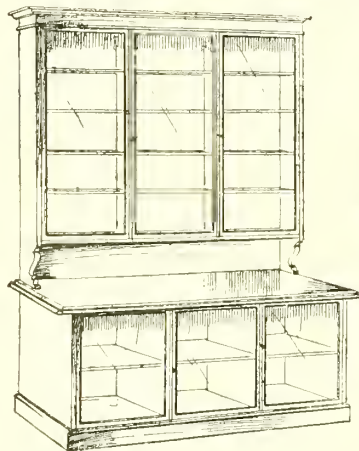
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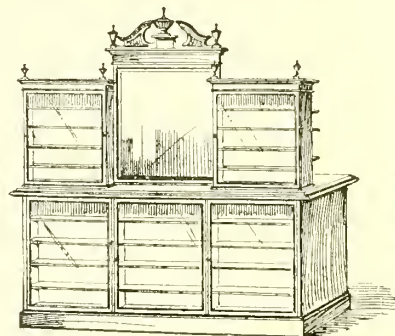
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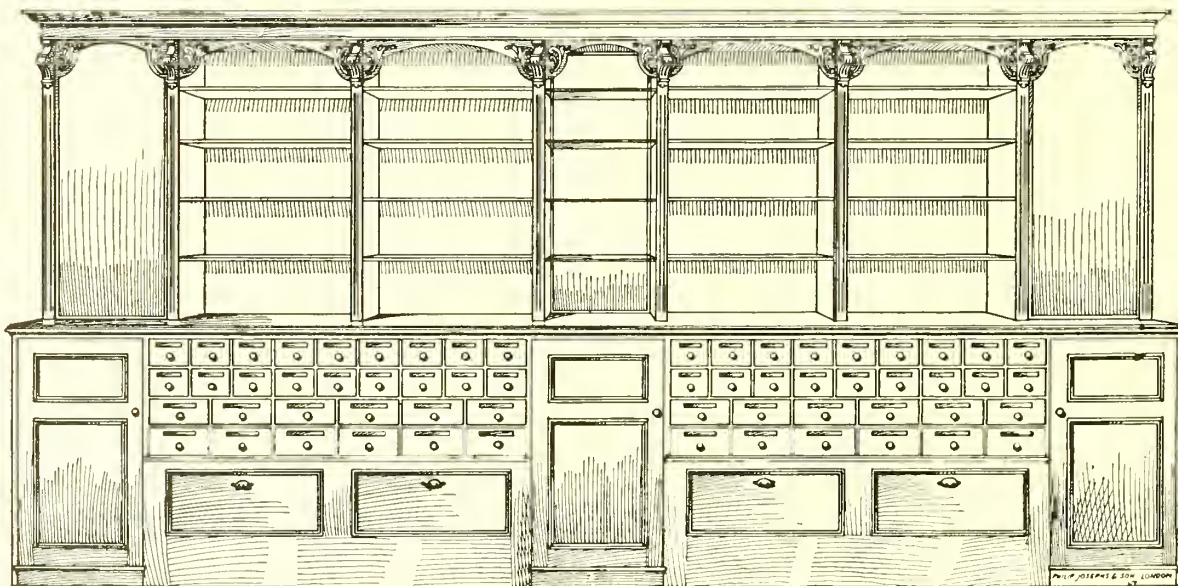
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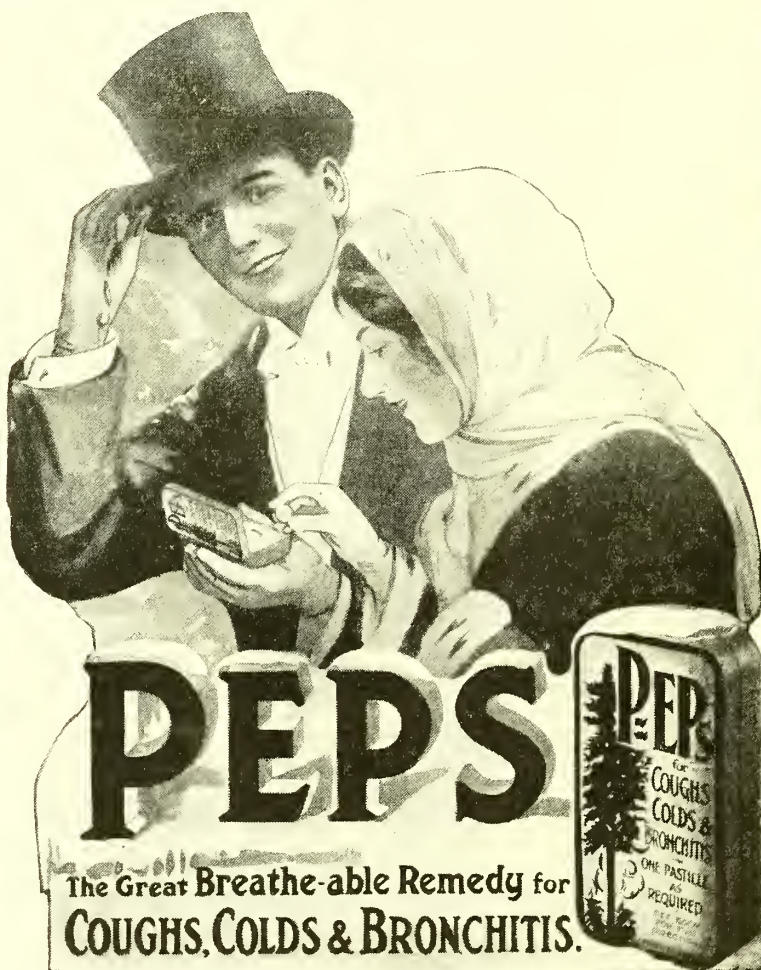
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Southall Bros. & Barclay, Ltd.
Wander, A., Ltd.
White, A. J., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Son & Co., Ltd.

Foot Appliances
Scholl Mfg. Co., Ltd.

Foot Warmers
Maw, S., Son & Sons
Swales, Thos.

Fragaldehyde
Heymann, Harry
McGlashan, D.

Fruit Drink
Fuller's Earth
Mumford, G. S., & Sons

Fumigators
Sanitas Co., Ltd.

Gallic Acid
Mallinckrodt Chem. Works

Gauzes
Bailey, E., & Son
Carnegie Bros.
Taylor, W. G.

Gelatines
Crampton, J., & Co., Ltd.

Glassware
Chemical
De Roubaix & Cassiers
Lane, Jules, & Son
Thompson, J. L., & Co.

Glycerin

Price's Patent Candle Co., Ltd.
Glycerophosphates
Monsanto Chemical Works
Reims Meyer Calburn & Kindersley, Ltd.

Grease Paints

Howenden, R., & Sons Ltd.
Quelch, Henry C., & Co.

Grinders, Drug, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.

Grime Water
Woodward, W., Ltd.

Gums

Fink, F., & Co.
Kildaton, W. M., & Co.
Lambert, Saml., & Co.
Welch & Horner

Hair Dyes

Harker, C. H., Stagg & Morgan
Blackie, Robert

Hair Preparations

Alexandre, L.
Anzora Perfumery Co.
Blackie, Robert
Edwards' "Harlene" Co.
Franklin Co.
Ni Verve Chemical Co.
Sangers

Hand Carts, Trucks, &c.
Crews & Co.

Hat Cleaners

Cox, Arthur H., & Co., Ltd.
Miner's Chemical Co.

Hat Dyes

Whittaker & Co.
Heating Apparatus
Little Kitcheners Co.
Wright, John, & Co.

Herbs

Brook, Parker & Co., Ltd.
Potter & Clarke, Ltd.
Salle, H., & Co.

Homeopathic Medicines

Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.

Horse Remedies

Harvey & Co. (Dublin), Ltd.
Hot Water Bottles
Bailey, W. H., & Son
Bertone, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Galen Manfg. Co., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Toogood, William, Ltd.
Warne, Wm., & Co., Ltd.
Wood, Vincent

Hot Water Bottle Stoppers

Bowe, T. Wilfrid

Hotels

Kingsley Hotel
Thackeray Hotel

Hydrogen Peroxide

Laporte, B., Ltd.
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyler, T., & Co., Ltd.

Hypophosphites

May & Baker, Ltd.
Tyler, T., & Co., Ltd.

Ink, Dichroic

Bewley & Draper, Ltd.
Insecticides
Allen & Hanbury, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
British Milk Products Co., Ltd.
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co.
Harker, Stacey & Morgan, Ltd.
Lorimer, John
Lofthouse & Saltmer, Ltd.
Natural Food Co., Ltd.
Sister Lauras Infant Food Co.
Southall Bros. & Barclay, Ltd.
Wander, A., Ltd.
White, A. J., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Son & Co., Ltd.

Insect Powder

Potter & Clarke, Ltd.
Raines & Co.

Iodides

Tyler, T., & Co., Ltd.

Lanolines

Bonaventura, F., & Co.
Corbyn, Stacey & Co., Ltd.
Hillcrest Oil Co., Ltd.
Howard Lloyd & Co., Ltd.

Lard

Ewen, J., & Sons
Lavender Oil
Allen, Stafford, & Sons, Ltd.
Guillevie, E., & Co.
Ransom, W., & Son, Ltd.

Lavender Water

Rush, W. J., & Co., Ltd.
Sangers
Vinolia Co., Ltd.

Lime Juice and Cordial

Evans Sons Leasher & Webb, Ltd.
Idris & Co., Ltd.

Linseed, Crushed

Mumford, G. S., & Sons
Lints
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Taylor, W. G.
Vernon & Co., Ltd.

Liquorice Juice

Boehm, F., Ltd.
Fuerst Bros.
Jackson, Ernest, & Co.
Solazzi

Liquors, Conc.

Fletcher, Fletcher & Co.

Lithia Salts

British Drug Houses, Ltd.
The
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

Loofah Socks

Davis, J. M., & Sons
Loofahs
Hall Forster & Co., Ltd.
Internl. Sponge Importers, Ltd.
Solport Bros., Ltd.

Lozenges

Cox, Arthur H., & Co., Ltd.
Crosse & Blackwell
Denoual, J. J., & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Parke, Davis & Co.
Potter & Clarke, Ltd.
Raines & Co.
Warwick Bros., Ltd.

Lysols

Burt, Boulton & Haywood, Ltd.
Bury, Ltd.
Evans Sons Leasher & Webb, Ltd.
Lysol, Ltd.

Machinery, Pharmaceutical

Allen & Hanbury, Ltd.
Bennett, Sons & Shears, Ltd.
Blair, Campbell & McLean, Ltd.
Forgrove Machinery Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, John J., & Sons, Ltd.
Pinder, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Magnesia and Preps.

Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ltd.

Malt Extract and Preps.

Allen & Hanbury, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
The
Burroughs Wellcome & Co.
Caldie, James, & Co., Ltd.
Caldie's Yeast Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Davies, Sons & Co.
Evans Sons Leasher & Webb, Ltd.
Fletcher, Fletcher & Co., Ltd.
May, Roberts & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Tolkein, C., & Co.
Wander, A., & Co.
Wyleys, Ltd.

Marking Ink

John Bond ("Crystal Palace")

Measures, Graduated

Bush, H. W., & Co., Ltd.

Meat Extracts

Armour & Co., Ltd.
Brand & Co., Ltd.

Mercurials

Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyler, T., & Co., Ltd.

Methylated Spirit

Burrough, J., Ltd.
Macrair, A., & Co.
Freston's Liverpool Distillery
Kandall & Son, Ltd.
Thornley, Samuel, Ltd.

Mineral Waters

Camwall, Ltd.
Cheltenham Mineral Water
Del Mar, E.
Idris & Co., Ltd.
Ingram & Royle, Ltd.
Vichy-Celestins

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Gardner, Wm. & Sons (Glos.) Ltd.
Stokes, F. J., Machine Co.

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Burt, Boulton & Haywood, Ltd.

Nebulizers

Reuter, R. J.

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Price's Patent Candle Co., Ltd.

Oils, Essential

Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott
Euna Essential Oil Co.
Evans Sons Leasher & Webb, Ltd.
Guillevie, E., & Co.
Lambert, Saml., & Co.
Lane-Hall, R., & Co.
London Essence Co.
Magnus, Mahe & Reynard Inc.
Naef, M., & Co.
Polak & Schwarz
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Welch & Horner
Wiener, R. O., & Co.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co., Ltd.

Peppermint Oil

Allen, Stafford, & Sons, Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Pepsine

Digestive Ferments Co.
Greiff, R. W., & Co.
Stearns, Fredk., & Co.

Peptone

Armour & Co., Ltd.
Digestive Ferments Co.
Fairchild Bros. & Foster
Stearns, Fredk., & Co.

Perfume Materials

Bush, W. J., & Co., Ltd.
Guillevie, E., & Co.
Kerfoot, Thos., & Co.
Lane-Hall, R., & Co.
Naef, M., & Co., Succrs.
Polak & Schwarz
Salle, H., & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co., Ltd.

Perfumes

Allen & Hanbury, Ltd.
Baies Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, Thos. & Co.
Demuth's Laboratories
Erasme Co., Ltd.
Evans Sons Leasher & Webb, Ltd.
Lescot Perfumery Co.

Petrol

Allen & Hanbury, Ltd.
Baies Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, Thos. & Co.
Demuth's Laboratories
Erasme Co., Ltd.
Evans Sons Leasher & Webb, Ltd.
Lescot Perfumery Co.

Petroleum Jelly

Allen & Hanbury, Ltd.
Baies Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, Thos. & Co.
Demuth's Laboratories
Erasme Co., Ltd.
Evans Sons Leasher & Webb, Ltd.
Lescot Perfumery Co.

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Evans Sons Leasher & Webb, Ltd.
Lescot Perfumery Co.

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Boehm, F., Ltd.
Price's Patent Candle Co., Ltd.
Stern Sonneborn Oil Co., Ltd.

Ointments

Blackie Robert
Burgess, E.
Charleston & Co.
Mentholum Co.
Oldfield, Pattinson & Co.
Peat Products (Spagnol) Ltd.

Olive Oil

Farris, Charles
Fuerst Bros.
Guillevie, E., & Co.

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Darton, F., & Co.
Maw, S., Son & Sons
Nitschke & Gunther Optical Co.
Standard Optical Co., Ltd.

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British Optical Institute
College of Optics

Orange and Quinine Wine

Hobson, Joseph, & Son
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, E., & Co., Ltd.

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Organo-Therapeutic Preps.

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British Organotherapy Co., Ltd.
Digestive Ferments Co.
Kerfoot, Thos., & Co.
Stearns, Fredk., & Co.

Otto Rose

Guillevie, E., & Co.
Zimmermann, C., & Co., Ltd.

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Saccharin
Saccharin Corporation, Ltd.
Salicylic Acid and Salicylates
Rush, W. J., & Co., Ltd.
Central Export Bureau
Fuerst Bros.

Salvarsan, &c., Substitutes
Bresillon, M., & Co.

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Serums and Antitoxins
Christy, T., & Co.

Serums and Antitoxins
Evansons Lescher & Webb, Ltd.
Parke, Davis & Co.

Serums and Antitoxins
Willcox, Joseph & Co.

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McAdam & Tuohiss

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Hawker, Arthur E.

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Tomlinson & Hayward, Ltd.

Shop Fittings
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Shop Fittings
Cook, George

Shop Fittings
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Shop Fittings
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Shop Fittings
Haskins, S. & Bros., Ltd.

Shop Fittings
Joseph, Philip, & Sons, Ltd.

Shop Fittings
Maw, S., Son & Sons

Shop Fittings
Mills, H.

Shop Fittings
Parnall & Sons

Shop Fittings
Riddick & Co.

Shop Fittings
Sangers

Shoulder Straps
Wood, Vincent

Silver Nitrate
Johnson, Mathew & Co., Ltd.

Soy Plant
Fershaw, B., & Son, Ltd.

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Soaps, Toilet, &c.
Chesbrough Manfg. Co.

Soaps, Toilet, &c.
Christy, Thos., & Co.

Soaps, Toilet, &c.
Cook, E., & Co., Ltd.

Soaps, Toilet, &c.
Erasmo Co., Ltd.

Soaps, Toilet, &c.
Euory, Ltd.

Soaps, Toilet, &c.
Evansons Lescher & Webb, Ltd.

Soaps, Toilet, &c.
Faulding, F. H., & Co.

Soaps, Toilet, &c.
Field, J. C. & J., Ltd.

Soaps, Toilet, &c.
Hovenden, R., & Sons, Ltd.

Soaps, Toilet, &c.
Lescol Perfumery Co.

Soaps, Toilet, &c.
Pears, A. & F., Ltd.

Soaps, Toilet, &c.
Peat Products (Sphagnum) Ltd.

Soaps, Toilet, &c.
Price's Patent Candle Co., Ltd.

Soaps, Toilet, &c.
Resinol Chemical Co.

Soaps, Toilet, &c.
Spratt's Patent, Ltd.

Soaps, Toilet, &c.
Vinolia Co., Ltd.

Soaps, Toilet, &c.
Wright, Layman & Umney, Ltd.

Sodium Bicarbonate
Brunner, Mond & Co., Ltd.

Sodium Bicarbonate
Howards & Sons, Ltd.

Soothers
Schnitz, F., & Co., Ltd.

Spectacles
Darton, F., & Co.

Spectacles
Maw, S., Son & Sons

Spectacles
Nitsche & Gunther Optical Co., Ltd.

Spermaceti
Farris, Charles

Spermaceti
Price's Patent Candle Co., Ltd.

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Allen, Stafford, & Sons, Ltd.

Spices (Ground)
Goodall, Backhouse & Co.

Spirit of Wine
Burroughs, J., Ltd.

Spirit of Wine
Calder, James, & Co., Ltd.

Spirit of Wine
Preston's Liverpool Distillery Co., Ltd.

Sponges
Internl. Spong Importers, Ltd.

Sprays
Burge, Warren & Kidgley, Ltd.

Sprays
Christy, Thos., & Co.

Sprays
Hovenden, R., & Sons, Ltd.

Sprays
Maw, S., Son & Sons

Sprays
Parke, Davis & Co.

Sprays
Sangers

Sprays
Toogood, Wm., Ltd.

Sprinkler Corks
Betts & Co., Ltd.

Spruce Beer
Hobson, Joseph, & Son

Starch
Mumford, G. F., & Sons

Stills
Bennett, Sons & Shears, Ltd.

Stills
Forshaw, E., & Son, Ltd.

Stills
Stokes, F. J., Machine Co.

Stoppers
Rowe, T. Wilford

Stipendium Stopper Co.
Stipendium Stopper Co.

Suppositories
Peat Products (Sphagnum) Ltd.

Surgical Appliances & Dressings
Allen & Hanburys, Ltd.

Surgical Appliances & Dressings
Bailey, R., & Son

Surgical Appliances & Dressings
Baiss Bros. & Stevenson, Ltd.

Surgical Appliances & Dressings
Berton, Arthur, Ltd.

Surgical Appliances & Dressings
Burges & Co.

Surgical Appliances & Dressings
Burroughs Wellcome & Co.

Surgical Appliances & Dressings
Bush, Henry W., & Co., Ltd.

Surgical Appliances & Dressings
Carnegie Bros.

Surgical Appliances & Dressings
Christy, Thos., & Co.

Surgical Appliances & Dressings
Cusson, Gerard & Co., Ltd.

Surgical Appliances & Dressings
Dalmay, A. de St., & Co.

Surgical Appliances & Dressings
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Surgical Appliances & Dressings
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Surgical Appliances & Dressings
Haynes, G., & Co.

Surgical Appliances & Dressings
Liverpool Lint Co.

Surgical Appliances & Dressings
Macfarlan, J. F., & Co.

Surgical Appliances & Dressings
Mason Bros. & Chapman

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Maw, S., Son & Sons

Surgical Appliances & Dressings
May, Robert & Co., Ltd.

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Melford, H. K., Co.

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Surgical Appliances & Dressings
Vernon & Co., Ltd.

Surgical Appliances & Dressings
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Surgical Appliances & Dressings
Warne, W., & Co., Ltd.

Surgical Appliances & Dressings
Wood, Vincent

Surgical Appliances & Dressings
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Burgoyne, Burbidges & Co.
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Burgoyne, Burbidges & Co.
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Burgoyne, Burbidges & Co.
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Burgoyne, Burbidges & Co.
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Talc, Powdered
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Tea
Christy, Thos., & Co.

Tea Tablets
Ayrton, Saunders & Co., Ltd.

Teats
Ingram, J. G., & Son

Terpenessless Oils
Naef, M., & Co.

Terpenessless Oils
Polak & Schwarz

Terpenessless Oils
Zimmermann, C., & Co., Ltd.

Theobromine
Scheller, Emil, & Co.

Theobromine
Smith, T. H., Ltd.

Theobromine
Societeit voor Chemische Industrie Katwijk

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Goodall, Backhouse & Co.

Tin Box Makers
Liverpool Tin Canister Co., Ltd.

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Allen, Stafford, & Sons, Ltd.

Tinctures in Bond
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Tinctures in Bond
Ransom, W., & Son, Ltd.

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Venesta Ltd.

Tobacco
Singleton & Cole, Ltd.

Toilet Preparations
Christy, T., & Co.

Toilet Preparations
Cusson, Gerard & Co.

Toilet Preparations
Fulford, C. E., Ltd.

Toilet Preparations
Goodall, Backhouse & Co.

Toilet Preparations
Hall Forster & Co., Ltd.

Toilet Preparations
Knock Walker, J., & Co., Ltd.

Toilet Preparations
Levers

Toilet Preparations
Little, D. J., Co.

Toilet Preparations
Lloyd, Almee, & Co.

Toilet Preparations
Papier Poudre, Ltd.

Toilet Preparations
Quelch, H. C., & Co.

Toilet Preparations
Rosemarie Mfg. Co.

Toilet Preparations
Stevenson & Howell, Ltd.

Toilet Preparations
Thomas, H., & Co.

Toilet Preparations
Vinolia Co., Ltd.

Toilet Paper
Ayrton, Saunders & Co., Ltd.

Toilet Paper
Burgoyne, Burbidges & Co.

Toilet Paper
Ford, Shapland & Co.

Toilet Paper
Townsend, J., & Sons

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Barker, R. W.

Trade-Marks Agents
Ford, Shapland & Co.

Trade-Marks Agents
Kaworth, John E.

Trade Protection
Assoc. of Manfg. Chemists, Ltd.

Translations
Mascarenhas, Dr.

Trusses
Bailey, W. H. & Son

Trusses
Bush, H. W., & Co., Ltd.

Trusses
Davis, J. M., & Sons, Ltd.

Trusses
Haywood, J. H., Ltd.

Trusses
Maw, S., Son & Sons

Trusses
Sangers

Trusses
Schutze, F., & Co., Ltd.

Trusses
Wood, Vincent

Trusses
Woolley, J., Sons & Co., Ltd.

Tubes, Glass
Melin, C., & Co.

Turned Wood Boxes
Estes, E. B., & Sons

Turned Wood Boxes
Wright, Arch. J., Ltd.

Terpentine
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Vacuum Flasks
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THE DIGESTIVE FERMENTS Co.

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and Animal Extracts, stocks of which are held in London by
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DIASTASE
PANCREATIN
PEPSIN
RENNIN 1 : 30,000
TRYPSIN

ANIMAL SUBSTANCES

BONE MARROW
HÆMOGLOBIN
LECITHIN
OX-GALL
PEPTONE

SODIUM GLYCOCHOLATE
SODIUM TAUROCHOLATE

We devote our whole time and attention to the manufacture of Digestive Ferments and Organo-Therapeutic Products, and we claim to produce the Highest Qualities at the Lowest Prices.

J.D. PRODUCTS ARE GOOD TRADE MAKERS.

FORMALIN THROAT TABLETS.

Mint, Rose, Lemon or Menthol Flavour.
In amber bottles, each 50 tablets, 5/6 per doz. In bulk
2/6 per lb.

*QUININE & CINNAMON OIL PERLES.

Each containing: Quinine Sulph. gr. i. and Ol. Cinnamon, B.P. mj. In fancy decorated tins, each 24 Perles,
7/6 per doz. Minimum retail, 1/- per box.

*AMMONIATED QUININE CAPSULES.

Twenty-four capsules, each containing the equivalent
of 60 m. Tr. Ammon. Quin. B.P. packed in neat
decorated tins for the pocket. 7/- per doz. Minimum
retail, 1/- per box.

ANTISEPTIC CINNAMON & FORMALIN LOZENGES.

A very effective combination with great antiseptic properties.
In screw-cap bottles, each 50 lozenges, 6/- per
doz. In bulk, 2/6 per lb.

ANTISEPTIC THROAT PASTILLES.

Thyme, Eucalyptol, Menthol, Gaultheria,
Licorice, Terebenthene and Pine Oil.
In bulk, 1/6 per lb. free tins. In glass show jars, each
6 lb., 10/- inclusive. 1-oz. tins, 2/- doz.; 2-oz. tins,
3/6 doz.; 4-oz. tins, 6/6 doz.

*PLATYPUS BRAND OIL OF EUCALYPTUS GLOBULUS.

5-lb. tins, 2/3 lb.; 10-lb. tins, 2/2 lb.; 25-lb. tins, 2/- lb.;
3d. bottles, 1/10 doz.; 6d. bottles in cartons, 4/- doz.;
1/- bottles in cartons, 8/- doz.

*PINE TREE LOZENGES. J. D. & CO.

The Original Pine-Tree Lozenge.
2-oz. tins, 3/9 doz. Minimum retail, 7½d. per box.

* On
the P.A.T.A.

Your name on
Labels if desired.

Competition for Quality.

JULES DENOVAL & CO., Manufacturers,
CARLTON WORKS, Asylum Road, LONDON, S.E.

PERFECT PHOTOGRAPHIC EMULSIONS
depend on the purity of their
ingredients.

NITRATE SILVER

is the most important of these, and
it happens also to be very sensitive
to contamination.

A wide margin of safety has therefore always been our principle in manufacturing it. Firstly, throughout the whole of our processes we use exclusively vessels made of Gold and Platinum. Secondly, all our first crystals are twice redissolved and recrystallised. Thirdly, every batch of final crystals is tested before passing into our stock.

Our guarantee of highest purity is thus assured.

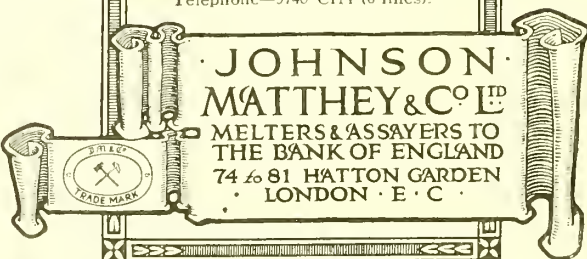
Competitive Quotations on request.
Mark indents "Johnson, Matthey's."

None genuine if not labelled with
our name and Trade Mark.

Cables—"MATTHEY LONDON"
(all Codes used)
Telephone—9740 CITY (6 lines).

**JOHNSON
MATTHEY & CO. LTD.**

MELTERS & ASSAYERS TO
THE BANK OF ENGLAND
74 & 81 HATTON GARDEN
LONDON · E · C



PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

R.W. Greeff & Co.,

offer at lowest prices the
following products manufactured
in the United Kingdom, Allied
and Neutral Countries.

(WHOLESALE QUANTITIES ONLY)

Barbitone	Isarol (best Ichthyol substitute)
Bromide of Ammonium	Lithia Carbonate
Bromide of Potassium	Lithol (Ichthyol sub.)
Bromide of Sodium	Mercurials
Chloral Hydrate	Methyl Salicylate
Cinchonine Sulphate and Muriate	Peppermint Oil
Cinchonidine Sulphate	Pepsine
Citric Acid	Phenacetin
Cocain Hydrochlor and Puriss	Phenazone
Cream of Tartar	Pyrogalllic Acid
Creosote Carbonate	Potassium Sulpho-Guaiacolate
Formaldehyde	Quinine
Gallic Acid	Salicylate of Soda
Glycerophosphates	Sugar of Milk
Guaiacol Carbonate	Tannic Acid
Heliotropin	Tannin Albuminate
Hexamine	Terpineol
Homatropine	Theobromine
Hydroquinone	Vanillin

R.W. Greeff & Co.,

THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.

TELEGRAPHIC ADDRESS:
ELEVEN CENT LONDON
TELEPHONE: CITY 7
PRIVATE BRANCH EXCHANGE

Maw's

S. MAW, SON & SONS
7 to 12, ALDERSGATE ST.
LONDON, E.C.

Page

AMPOULES:
READ OUR IMPORTANT
ANNOUNCEMENT

NUMBER 216

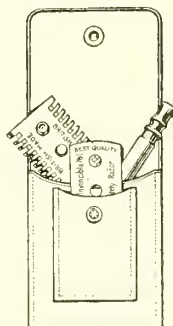
DECEMBER 4, 1915

"We believe that the Nation intends to keep Christmas after the British fashion, giving and receiving presents."—*DAILY TELEGRAPH.*



SPIRIT FLASKS.

All metal patterns. Concave, 2/3 to 6/9 each. Tall, 5/9 to 8/9 each.



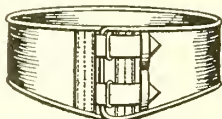
"INVINCIBLE" SHAVING SET.

Case for the pocket, containing razor and blade. 15/- dozen.



"OPENEZI" KNIVES.

Can be opened with gloved hand. Three on a card. 12/- dozen.



BODY BELTS.

Felt and flannel. Grey and red. Sizes, 28 to 40 in. From 24/- dozen.

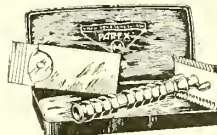


SHAVING BRUSHES.

Real bristle, set in polished wood handles. Two shapes. Order No. 2212. 10/- dozen.



"PAREX" BLADE STROPPER. Nickel-plated. For twin-edged blades. On card. 9/- dozen.



"PAREX" SAFETY RAZOR. Gold-plated, in leather case. Six blades, 8/3 each. Silver-plated, do. do., 7/- each.

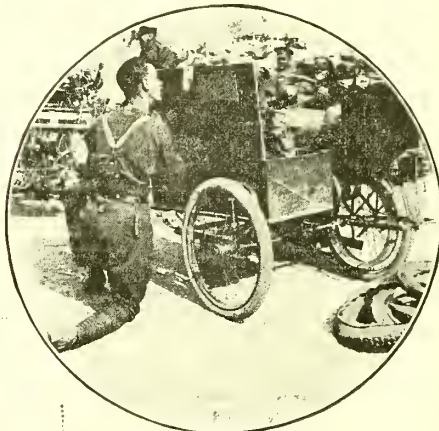
OTHER LINES, PAGE 11, "C. & D." NOV. 20.

SHAVING SOAP.

B4358/T. Maw's superfatted, in cartons. 5/- dozen.

This official photograph shows Tommy at his toilet. Note the unbreakable mirror. By selling the lines depicted above you are mitigating his discomforts.

UNBREAKABLE MIRRORS. In Cases. 8/- and 16/- dozen.



OIL SILK SOCKS. Prevent frost-bite and wet in the trenches. Waterproof. Three sizes. 3/6 pair.



"ACTIVE SERVICE" HEALTH AIDS.

Foot Powder, 24/- gross. Camphor and Boracic Cream, 31/- gross.

"Wherewith rub your Teeth."

The care of the teeth has been a problem for some hundreds of years. The search for the ideal dentifrice has taken as long.

In the sixteenth century several varieties of tooth powder were known. The recipe for one of the simplest read: "Burne a piece of Corke till it looks like a Coale; then take it out of the Fyre and it will fall to ashes, wherewith rub your teeth."

The public follow a somewhat different recipe at the present day, and it cannot be described as simple.

"Call into the nearest pharmacy and ask to see the various powders, liquids and pastes put up in a variety

of tubes, tins, bottles, and pots, and select according to taste."

The trouble does not end there. Unless the customer asks for a particular brand, the pharmacist will have to advise on the quality of the various dentifrices. The final choice may have to be decided between a preparation which the salesman recommends, and another which appeals to the customer by its attractive get-up. It will take three or four minutes of your time

And you may take sevenpence halfpenny.

If brevity is the soul of wit, then prompt satisfaction is the soul of business.

Why not put before customers dentifrices which combine purity of ingredients, fair price, and effective appearance. Why not save time and disappointment by offering preparations noted for quality, fragrance and value. Why not point out to customers that one tin of tooth powder, or one tube of tooth paste, or one bottle of liquid dentifrice bearing a recognised name, is worth two of either minus such a reliable guarantee? You cannot do wrong if that name be

Capsule
"MAW."

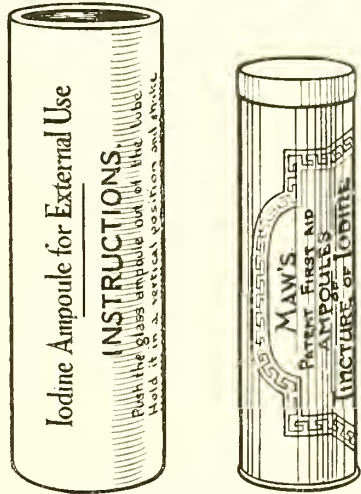
There are ampoules, and there are MAW'S TINCTURE OF IODINE AMPOULES.

Our pattern is the only one that has been adopted by the War Office; a sufficient endorsement of the excellence of this production.

Maw's Iodine Ampoules are the great "first aid" remedy carried and used by soldiers, sailors, munition workers, doctors, engineers, motorists, gardeners, and all whose occupations make them liable to septic infection.

Each Ampoule is put up in two forms: in strong cardboard tubes or artistic metal cases, carefully packed in silky fibre, and contains approximately 30 minims of iodine tincture, enough to sterilise a square foot of skin surface.

But they *must* be Maw's.



Maw's official Army Pattern Tincture of Iodine Ampoules, as sent to Tommy at the front. Put up in silky fibre in heavy cardboard tubes, with directions, in packets of 1 dozen.

Maw's official Army Pattern Tincture of Iodine Ampoules, put up in silky fibre in metal cases, attractively printed with directions, in boxes of half-dozen.

18/- GROSS. 2/6 DOZEN.

USUAL DISCOUNT.
DEMONSTRATION SHOWCARDS FREE.

AS EXCLUSIVELY
SUPPLIED TO
THE WAR OFFICE

MAW'S TINCTURE OF IODINE AMPOULES

Prov. Pat. 23437/1914.

MAW'S IS THE ONLY FIRM WHO
CAN SUPPLY IODINE AMPOULES
(WAR OFFICE PATTERN) TO
THE TRADE AND PUBLIC.



ACTUAL
SIZE

Send for a
Sample!

If you wish to examine for yourself the splendid get-up and appearance of Maw's Iodine Ampoules, fill up this coupon, or send a post-card for free sample:

Please send sample of your official Army Pattern Iodine Ampoules as supplied to the War Office.

NAME.....

ADDRESS.....

S. MAW, SON & SONS,
7-12 ALDERSGATE ST., LONDON,
E.C.

S/S STOCK CARTONS

FOR THE WINTER SEASON

Beautifully Designed : Lithographed in Colours

Supplied in quantities 1 gross upwards
— with name and address —

ONE SHOWCARD FREE WITH EACH GROSS



Blood Purifier - - - -	8 oz.
Neuralgia Mixture - - - -	6 oz.
Influenza and Cold Mixture - - - -	6 oz.
Indigestion Mixture - - - -	6 oz.
Q. I. P. Tonic (Quinine, Iron & Phosphorus)	8 oz.
Household Embrocation - - - -	4 or 6 oz.
Pectoral Cough Cure (for Adults)	
2 oz. Kay's or 3 oz. flat.	
Wild Cherry Cough Syrup (for Children)	
2 oz. Kay's or 3 oz. flat.	
Cough and Bronchitis Mixture - - - -	4 oz.
Chest and Lung Syrup - - - -	4 oz.

— Send for Samples —
TO-DAY—NOW

SUTTLEY & SILVERLOCK, Ltd.

Pharmaceutical Printing Dispensers
— Carton Specialists —

BLACKFRIARS ROAD, LONDON, S.E.

*Gun Deafness
prevented*



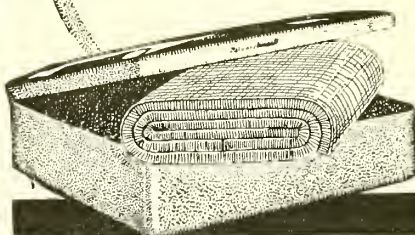
by the use of Harbutt's
FIBROUS PLASTICINE.

Used by the War Office and Admiralty and
by hundreds of our men in the firing line.

Harbutt's FIBROUS PLASTICINE

Strongly advertised, and put up in attractive tin boxes to retail at 6d. and 1/-.
This new line is worth your attention.

HARBUTT'S PLASTICINE, LTD.
6 Bathampton - - Bath.



PLEASE
WRITE
FOR
TERMS
AND
SAMPLES.

NEW MINIMUM RETAIL PRICES

CALVERT'S CARBOLIC Tooth Powder

6d. size - now	5d. retail
1/- ,, - ,,	10d. ,,
1/6 ,, - ,,	1/3 ,,
5/- ,, - ,,	4/6 ,,

The minimum retail price for Calvert's
Carbolic Ointment is now 1/1½

Revised Price List, dated November 1,
1915, and new schedule of minimum
retail prices, sent on request from

F. C. CALVERT & CO.
P.O. Box 147, MANCHESTER.

SCIENTIA



DILIGENTIA

CHLORAL FORMAMIDE

⟨CHLORALAMIDE⟩.

WE are now manufacturing
this in our Laboratories,
and are prepared to book con-
tracts for prompt or forward
delivery.

Burgoyne, Burbidges & Co.
EAST HAM ————— LONDON, E.

Telegrams: "CYRIAX, EHAM, LONDON."

Telephone: EAST HAM 686 (Four Lines).

SAVE 3/- PER GALLON
BY BUYING
GUARANTEED GENUINE
NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL
OF 1915 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

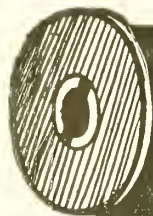
Established 1780.



Scholl's "PEDICO FOOT BALM" is a cream-like preparation, which, when well rubbed in, tones up the foot muscles, making them respond more freely, and leaves the skin as smooth and soft as Nature intended; this preparation is most soothing, refreshing, and penetrating to the feet. Retail price 1/- per jar.

Write to-day for our free booklet, "SCIENTIFIC CORRECTION FOR AILMENTS OF THE FEET."

THE SCHOLL MFG. CO., LTD., Largest Makers of Foot Appliances in the World,
 1, 2, 3 & 4 GILTSPUR STREET, LONDON, E.C.



ROLL FILMS
DEVELOPED

AND DESPATCHED DAY AFTER RECEIPT.

Express Developing Co.,
 86, High St., Whitechapel, E.C.

Speciality:
 Chemists'
 Enlargements
 and ALL
 Practical
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Send for Price List of our Profitable Chemists' Side Lines.

PRESCRIBED FOR MEMBERS OF THE ROYAL FAMILY

**SUPPLIED TO HER MAJESTY QUEEN MARY'S ROYAL NAVAL HOSPITAL
ALSO TO HER ROYAL HIGHNESS THE PRINCESS LOUISE'S HOSPITAL
THE ALLIES' HOSPITAL (Hôpital de l'Alliance), YVETOT, FRANCE
THE BRITISH RED CROSS SOCIETY'S HOSPITALS, etc.**

*Unsurpassable reputation for
genuineness. Never claims to
do more than it can accomplish.*

*Over a quarter of a century
of uninterrupted success as
a specialised preparation.*

KUTNOW'S POWDER

For Liver, Kidneys & Bowels.

THE FAMOUS BRITISH REMEDY MADE IN ENGLAND ONLY

THE POWDER—BOTTLES—CAPSULES—LABELS ALL MADE IN ENGLAND

It is on the P.A.T.A.
It is well advertised
It is very popular
It is a good article
It is never dead stock
It yields a good profit
It satisfies everybody



The Doctors prescribe it
The Nurses recommend it
The Public appreciate it
The Customer comes again
The demand is constant
The sales are increasing
The trade is progressive

**ORDER AT ONCE FROM
YOUR WHOLESALE HOUSE**

**WINDOW SHOWS ATTRACT
REMUNERATIVE BUSINESS**

IMPORTANT NOTICE.

Hospital War Service

— FREE OF CHARGE —

DOCTORS, NURSES & HOSPITALS

are invited to apply at once for special Physicians' Sample Bottles of Kutnow's Powder, for the use of the sick and wounded both at the front and at home. All applications will be dealt with promptly and supplies forwarded immediately, carriage paid. Applications to be made by letter, and should be marked

"HOSPITAL WAR SERVICE,"

and addressed to

Messrs. S. KUTNOW & Co., Ltd.

41 Farringdon Road, London, E.C.

PERSONAL NOTICE.

Showcards & Dummies

— SEND THIS COUPON —

To S. KUTNOW & CO., Ltd.,

41 Farringdon Road, London, E.C.

Please send me Showcards and Counter Bills, carriage paid.

NAME.....

ADDRESS

"Chemist & Druggist," Dec. 4, 1915

Fill in, cut out, and post in open envelope, affix 1d. stamp.

S. KUTNOW & CO., LTD., Sole Proprietors,

41 Farringdon Road, London, E.C.

CARTONS FOR STOCK LINES



WE HAVE A LARGE VARIETY OF CARTONS IN STOCK, ONE OF WHICH WE ILLUSTRATE ABOVE. THE WORKMANSHIP IS GOOD THROUGHOUT, AND WE CAN RECOMMEND THEM TO ALL WHO WISH TO SEE THEIR GOODS WELL PACKED.

WE SHALL BE GLAD TO SEND SAMPLES OF ANY OF THE FOLLOWING CARTONS FOR

BLOOD MIXTURE
CAMOMILE
COUGH BALSAM
EMBROCATION
FRUIT SALINE
HAIR RESTORER
HYPO
LEMONADE CRYSTALS
NEURALGIA MIXTURE
SENNA
SEIDLITZ POWDERS
SYRUP OF FIGS
ETC. ETC. ETC.

ROBINSON & SONS, LTD.

BOX MAKERS TO THE
CHEMIST TRADE

CHESTERFIELD & LONDON.

(21)

KEEP FULL STOCKS ALL THROUGH THE YEAR

OF THE

New Complexion Cream

"VELOIN"

This cream is advertised in a novel manner, and very extensively. The public will want it, and it is bad business to send a customer to a rival shop for anything.

The profit on the retail sale is worth having—and you keep your customer.

Wholesale price, per dozen jars, 24/-

Retail price - - - per jar, 2/6

SOLE MANUFACTURERS—

The D. J. LITTLE CO.,
37/38 Hatton Garden, LONDON, E.C.

OVER 100% PROFIT!
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	...	7/6	} per doz. less 5% discount
1/6	...	9/-	
2/6	...	15/-	
3/6	...	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.

DON'T READ THIS

if you are satisfied with old-fashioned methods of BOTTLE CAPPING

Write us your requirements, or send for Booklet giving full details, prices, &c.

**THE VISCOSE
DEVELOPMENT
CO. LTD.,
Bromley, Kent.**

Telegrams :
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Telephone : 1415 Bromley.

This MESSAGE on up-to-date METHODS of BOTTLE CAPPING

makes its appeal to Pharmacists, and those who supply Pharmacists and high-class Stores with bottled Proprietary lines.

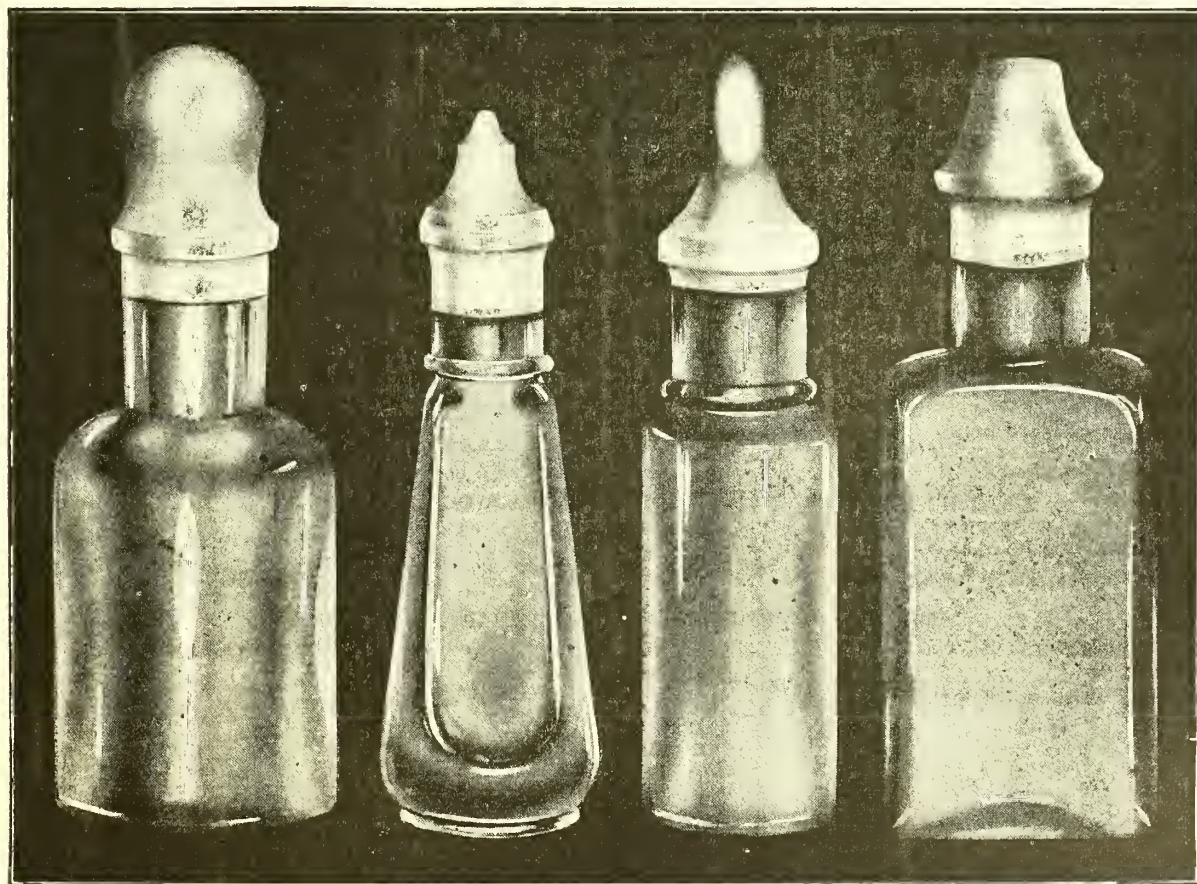
SEMREH

—BOTTLE CAPS—

are the newest means of capping. They are also the best. All the difficulties and trouble and skill required in capping with paper or skins are avoided by their use: all the extra expense, too, such as string, elastic, or adhesive is cut out.

SEMREH CAPS require no skill to apply: they are self-fixing; any boy (or a girl in these war times) can do it in a second. They make a hermetic seal, spirit-proof, and dust-proof, effective, handsome and lasting.

Made in pearly white, transparent or opaque; or in a variety of colours clear or opaque. Just the thing for giving the finishing touch to perfumery. As well as being HANDSOME & STRONG, remember, too, they are absolutely
BRITISH MADE.



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HUGUES AÎNÉ - - **Grasse, France**

French Essential Oils and Raw Materials for
 PERFUMERS, SOAPMAKERS, MANUFACTURING CHEMISTS
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M. NAEF & CO. - **Geneva, Switzerland**
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Synthetic and Aromatic Chemicals and Specialities for
 PERFUMERS, SOAPMAKERS, MANUFACTURING CHEMISTS
 AND CONFECTIONERS, &c.

BOTU PAPAZOGLU & CO., **Kazanlik, Bulgaria**
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PURE AND GENUINE OTTO OF ROSE.

Distilleries at { DOVADJOVA-HISSAR (Carlowa).
 KAZANLIK, on the River Tundja.
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Pure Edible OLIVE OILS of the highest grades.

CHUIT NAEF & CO.

M. NAEF & CO.

(Successors)

GENEVA, Switzerland.

WORLD . RENOWNED PERFUMERS
are now using our leading Specialties in
Synthetic & Aromatic Chemicals

We cannot improve our qualities, **but You** can blend our ingredients and produce exquisite Perfumes.

Up-to-date Novelties for modern floral odours are:

Cyclosia . . . As indispensable as Jonone in modern perfume laboratories.
Lilafleur . . . The most delightful and refreshing Lilac odours ever produced.
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Rose Orient . . . The best substitute existing for the costly Bulgarian Otto of Roses.
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Samples and Price Lists sent on application.

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Cable Address— "MAGLAUR." New York City, U.S.A.

Importers and Manufacturers.

**ESSENTIAL OILS,
VANILLA BEANS,
DRUGS & CHEMICALS.**

We offer for sale—

Oil Peppermint, American	Oil Sassafras, Natural
" Spearmint	" " Artificial
" Birch (Wintergreen)	" Wormseed, Baltimore
" Wintergreen Leaf	" Wormwood, American
" Cedarwood	" Sandalwood, W.I.
" Limes, Distilled	Balsam Tolu
" " H. P.	" Copaiba
	" Peru

We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.

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STRATFORD. LONDON. E.**

Distillers and direct
Importers of all important

Essential Oils.

Manufacturers and Distillers of

**ESSENCES,
SYNTHETIC PERFUMES, &c.**

including

Anethol, Citral,
Citronellol, Eugenol,
Geraniol, Geranylacetate,
&c.

Terpeneless Oil of Lemon,
Sesquiterpeneless
Oil of Lemon.

Write for samples and quotations.

**A. Boake Roberts
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ESSENTIAL OILS. OWN DISTILLATION.

IMPORTED AND GUARANTEED.

Inquire for Prices.

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EVANS

Druggists'
Sundries
and
Counter
Adjuncts.

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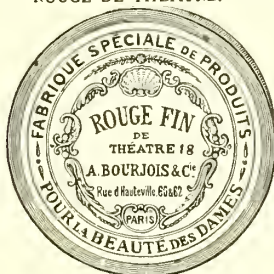
EVANS' CHEMICALS
All Tested and Guaranteed.

EVANS SONS LESCHER & WEBB
Limited

LIVERPOOL AND LONDON.
Also New York, U.S.A.

BRITAIN AND **FRANCE** ARE FIGHTING SIDE BY SIDE, NOT ONLY ON THE FIELD OF BATTLE, BUT ALSO ON THE **FIELD OF COMMERCE**. THEIR **VICTORIES** IN THIS SPHERE ONLY FORESHADOW THE FINAL **OVERTHROW** OF **GERMANY**. ALL **LOYAL CHEMISTS** MUST HELP TO CONSOLIDATE THE **GREAT COMMERCIAL VICTORY**.

ROUGE DE THEATRE.

IN
FOUR
TINTS.

No. 117, 2/3 per dozen.
No. 118, 3/3 per dozen.
No. 104, 4/6 per dozen.

SOLID POWDER WITH PUFF.

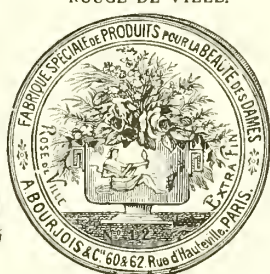


ROSE, RACHEL, BLANCHE, OCREE,
MAUVE, NATURELLE, ROSETTE,
BRUN.

No. 65, 6/- per dozen.

CUSTOMER'S NAME ON 1 GROSS LOTS FREE.

ROUGE DE VILLE.

IN
FOUR
TINTS.

No. 67, 2/9 per dozen
No. 68, 3/9 per dozen.
No. 69, 5/- per dozen.

POUDRE de RIZ de JAVA,

AND OTHER
TOILET POWDERS.

LIP SALVES,
COSMETICS,
BRILLIANTINES

ETC. ETC



EYEBROW PENCILS No. 1. ALL COLOURS. ON CARDS, 2/9 per dozen.

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ON APPLICATION

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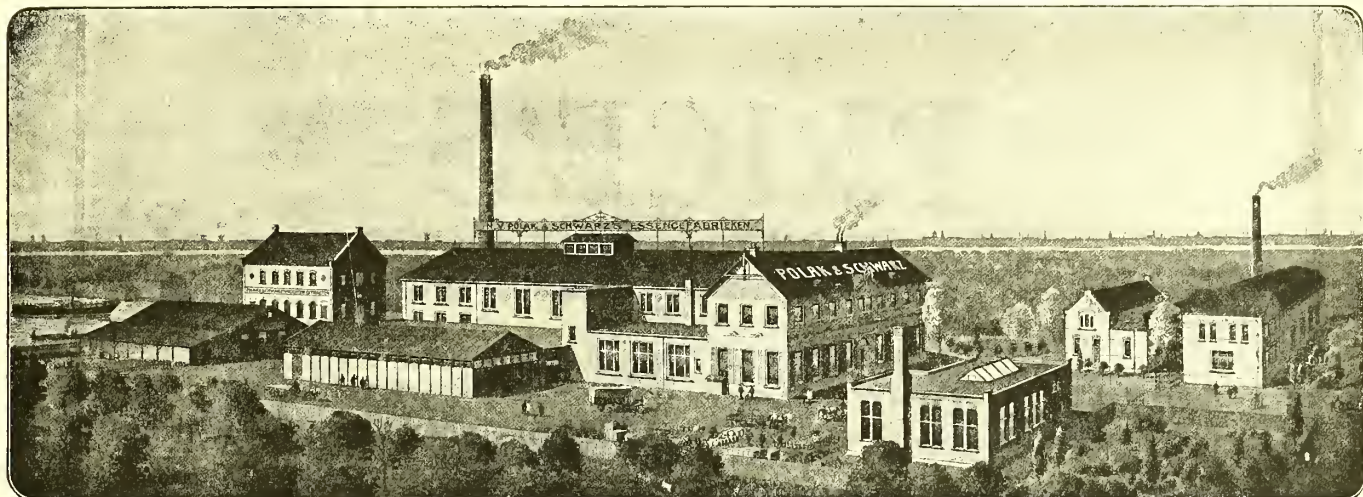
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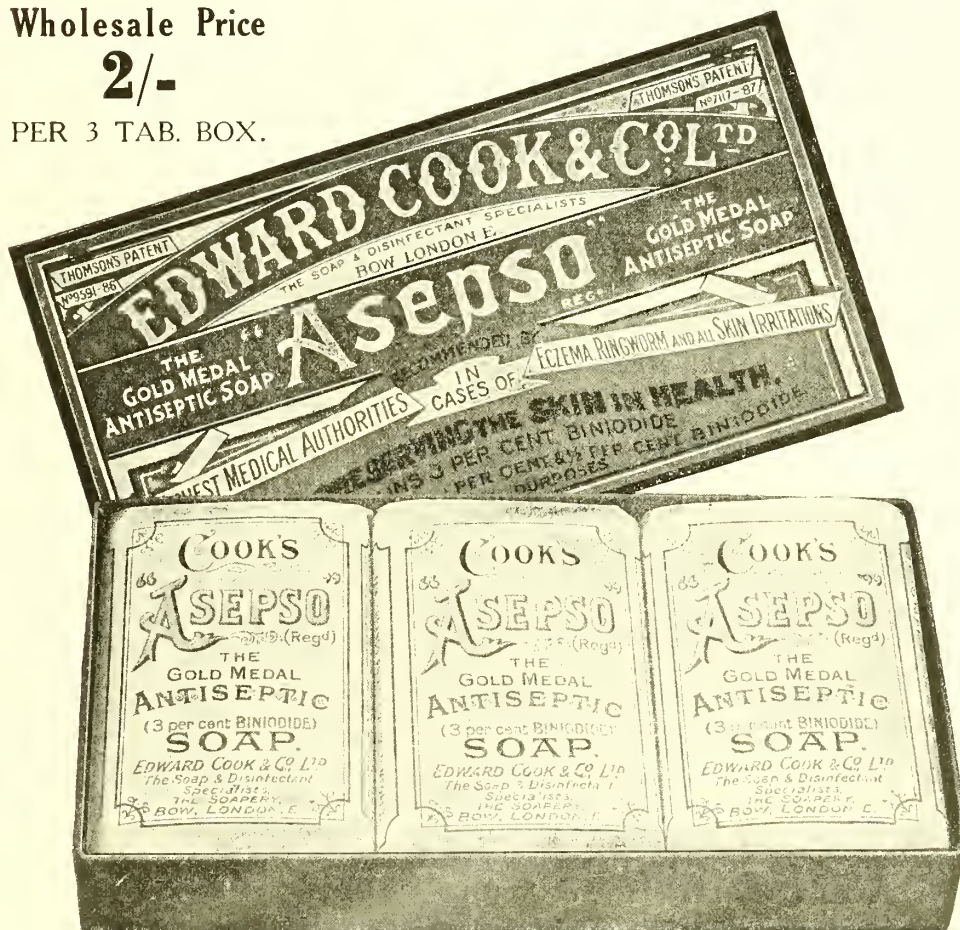
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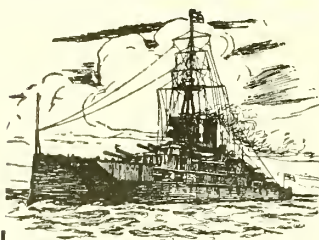
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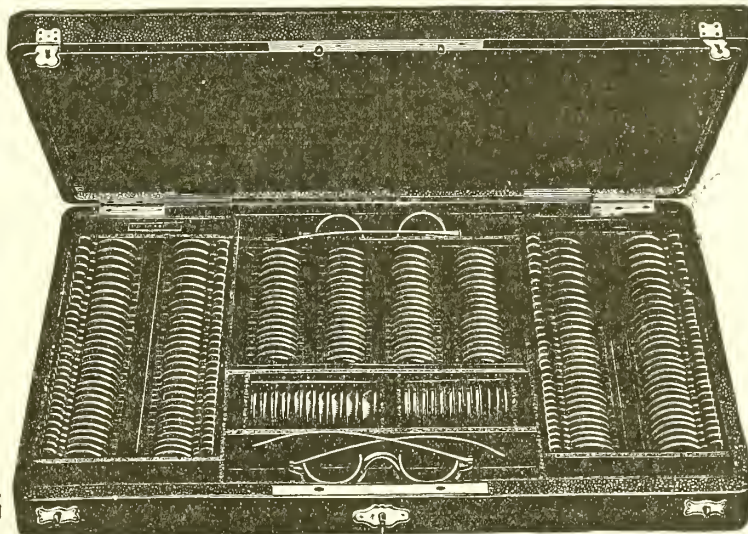
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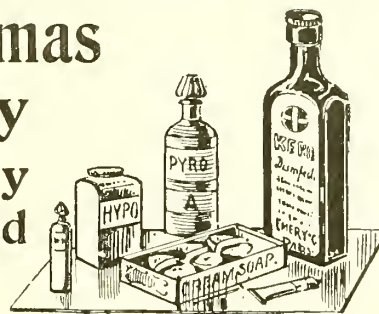
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A good number of the *C. & D.*, with plenty in it to read and profit by. The Comptroller of his Majesty's Household and Mr. Rutherford Hill have crossed swords, the claymore having the better of it so far (p. 48). Central pricing is to be established in England and Wales, and a contributor doubts its wisdom (p. 42), as to which read Mr. Kitchin's statement regarding the Scottish Bureau (p. 55). The rising markets are commented upon (p. 49), and our Trade Report contains an account of the drug-auctions on Thursday and a table of two weeks' arrivals of produce—the latter as cheering and significant as anything in the world at present (pp. 58-62).

The "C. & D." Annual Subscription.

OWING to the changes in the newspaper postal rates, which came into force on Monday, November 1, the cost of delivering THE CHEMIST AND DRUGGIST has been much augmented, and it has become necessary to increase the annual subscription rate from 10s. to 12s. 6d. Changes of this nature are contemplated by the Post Office and Telegraph Act, 1915 (which creates the new rates), Section 2 (1) being as follows:

"Any contract for the supply or delivery to subscribers of newspapers, periodicals, or other publications at rates including postage, so far as the contract includes the supply or delivery of publications the rate of postage on which is increased after the passing of this Act, and before the first day of January, nineteen hundred and sixteen, may be determined by any party to the contract as from the date on which the rate is raised by notice given to the other party to the contract not later than fourteen days after the increase of rate takes effect."

Notwithstanding this provision, and that the postage on each issue will never be less than double the old rate, all that is proposed in the case of THE CHEMIST AND DRUGGIST is to charge the 12s. 6d. rate for all new subscriptions dating from December 1, 1915, and the same for new and renewal subscriptions dating from January 1, 1916, and thereafter. The increase of 2s. 6d. represents part only of the outlay incurred at this time, as it is not proposed to diminish the interest and utility of the *C. & D.*, but to maintain it as a weekly publication of unimpaired value. Subscribers who receive from the Publisher notice that their subscriptions expire at the end of December are particularly requested to renew promptly, as our subscription department is exceptionally pressed with work at this season, and war conditions are increasing the work greatly.

European War.

A Year Ago To-day.

(War News in "*C. & D.*" December 5, 1914.)

Lord Moulton, at a meeting of the Royal Society of Arts, made his famous speech on the humiliating condition of the fine chemical-industry in this country. The House of Commons had a few days previously sanctioned the payment of a subsidy to a company established for the manufacture in this country of aniline dyes. The scheme as outlined was afterwards modified, and resulted in the flotation of British Dyes, Ltd. Dr. Thoms, of Berlin, was reported as stating that "it will take Germans a long time, after peace is concluded, to get over their bitter feelings against England." We dealt editorially with the supply of raw material as affected by the war.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

SIXTY-THIRD LIST.

ANDERSON, JAMES (lately senior apprentice with Mr. Edmund Jones, pharmacist, Hanley), R.A.M.C.

BRANDER, B. M., Ph.C. (the *C. & D.* Editorial Staff), R.A.M.C.

BUTTERY, FRED. (lately with Mr. W. Hammond, chemist, Leeds).

BUTTS, J. A. (traveller to Evans, Gadd & Co., Ltd., Exeter), Mechanical Transport Department of the Army Service Corps.

CORNER, EDWARD (lately senior assistant with Mr. Edmund Jones, pharmacist, Hanley), Army Reserve B.

DARBY, W. (lately with Mr. T. H. Gee, chemist, Leeds).

DAVIES, J. (recently apprentice with Mr. Bernard Beer, pharmacist, Old Colwyn), 12th Royal Welsh Fusiliers.

EVANS, D. (assistant with Mr. A. Francis, chemist and druggist, New Tredegar), R.A.M.C.

PRESTON, A. (secretary to J. Gilbert Jackson, Ltd., Sheffield), Army Reserve B.

SHEARDOWN, Private SIDNEY (late assistant with Mr. T. C. Binks, chemist and druggist, Castleford), R.A.M.C.

Trade with China.

The following is a further selection of approved consignees in China, as published in the "*London Gazette*" of November 26: Des Remedios, A.G., Shanghai; Dr. Iyy. Shanghai; Tientsin Soap-manufacturing Co., Tientsin; Drs. Aird and Skinner; North Great China Dispensary; Tai On & Co. (Canton Medical Hall), Canton; Dr. Y. Y. Tsui, Tientsin; Union Medical College; Dr. Y. N. Wang, Tientsin and Peking; Dr. K. S. Yau, Tientsin and Peking; Dr. Tai Fu Lim, Newchang.

Germania's Glory.

The original of the annexed engraving is a coloured stamp, 2 in. deep by 1½ in. wide, and is made and used in Germany to affix on correspondence. Germania, a lady of goodly countenance, full-busted and yellow-haired, stands with her back to the West; for it is sunset, and the shore on which she stands (we think there is a suggestion of the crested wave behind) is covered with laurel. The inscription is:

DEUTSCHE
in aller Welt niemals wieder
verbraucht englische, fran-
zösische
oder italienische Erzeugnisse!
DENKT IN 1914!

Which, translated, is: "Germans, throughout the world, never again use English, French, or Italian products. Remember 1914!" Surely something better than "Denkt in 1914" could have been found. That is the one thing that the world is not to allow Germans to forget!

Personalia.

ALDERMAN C. J. WAIN, Ph.C., Newcastle-under-Lyne, has been appointed a member of the recruiting appeal tribunal for the borough.

MR. EDMUND JONES, chemist, Hanley, practises as he preaches. He is strong for recruiting, and his four eligible apprentices have enlisted.



MR. HAROLD M. E. LOWE, son of Mr. C. H. Eaton Lowe, chemist, of Bristol, has been granted a commission in the 3/4th Gloucestershire Regiment.

MR. P. F. ROWSELL, J.P., was the chairman of a Parliamentary Recruiting Committee meeting at Honiton on November 26, and stated, in reply to a question about Lord Derby's scheme, that there is no ground for apprehension as to the group arrangement being overridden by the military authorities, in view of the definite pledges which have been given.

LIEUTENANT H. RONALD CULLWICK, of the North Staffordshire Regiment, was successful at the Final examination for the diploma of Licentiate in Dental Surgery, Royal College of Surgeons, England, held recently. He had just finished the curriculum when the war broke out, was commissioned September 5, 1914, and gave himself up to his military duties entirely. He is a son of Mr. H. E. Cullwick, dental manufacturer, Wolverhampton.

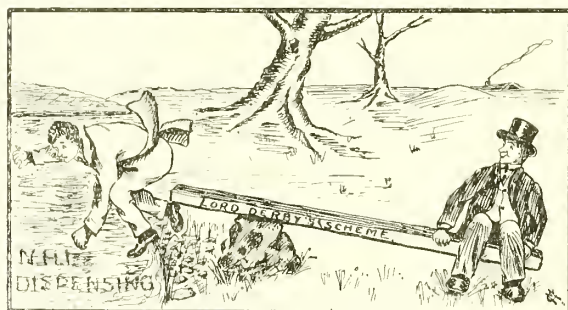
LIEUTENANT J. EVELYN DAKIN, son of Mr. J. Harrison Dakin (Dakin Bros., Ltd.), is at home on leave, recovering from a shrapnel-wound in the shoulder received in France. At the outbreak of war he was in British East Africa, and assisted in the operations which prevented the Uganda railway from being taken possession of by the Germans. His brother, Lieutenant Geoffrey Dakin (a director of Dakin Bros., Ltd.), is in the Motor Machine-gun Section of the Royal Field Artillery.

Miscellaneous.

KULTURING CULTURE.—The German Government now prohibits the export of all medical literature, papers, and books to neutral countries as well as to its enemies. This fact has been known in France for some time; it was supposed that the reason is that the Germans object to others knowing how they heal their wounded.

AN ORDER IN COUNCIL was published in the "London Gazette" (November 30) making further provision with reference to the exercise of jurisdiction over British companies carrying on business in China. The Order comes into force on January 1, 1916, and its object is to exclude German control or influence.

RECRUITING.—A liberal view is being taken in official pharmaceutical circles of what is meant by a "chemist" in the recruiting provisions mentioned last week (p. 33). The artist depicts the effect not unhappily, for any person



The Insurance Commissioners' Lever

connected with the Insurance dispensing or supply part of a chemist's business is *entitled to apply* for attestation in the Army Reserve, Class B. We have italicised "entitled to apply" for the reason that it does not mean "entitled to exemption"; that must be determined by the local tribunal when the occasion arises.

SWISS CHEMICALS AND DYES.—The partial stoppage by Germany of deliveries of coal to about forty Swiss chemical and engineering works referred to in previous issues of the *C. & D.* is (says a Berne correspondent) alleged to be an initial step in the direction of attempting to paralyse, at least in part, future competition in the chemical industry. The chief Swiss chemical-works have considerably extended their factories during the past year, and have secured new customers and new markets, and the cutting of coal supplies is particularly aimed at the factories turning out pharmaceutical products, of which there are quite half a dozen working on a large scale in Switzerland. The manufacture of soda products is contemplated in Switzerland, and the cantons are co-operating as shareholders in the completion of the Erste Schweizerische Soda Fabrik, which is to obtain its raw materials from the Rheinfelden Salines Co. The new enterprise is an endeavour to secure emancipation from the German chemical industry, and the idea has been taken up wholeheartedly.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Store-prices.

The Army and Navy Stores, Victoria Street, Westminster, has advanced the prices of malt extract and cod-liver oil to 1s. 2d. per lb. bottle and 2s. 2d. per 2-lb. bottle. [We understand that these prices are being followed by Boots, Ltd., and that other store chemists in London are also adopting them.]

Contracts.

The following arrangements are reported:

The Wandsworth Board of Guardians are continuing for three months Hodgkinson, Prestons & King's contract for drugs. They have also decided to pay S. Maw, Son & Sons 3l. 18s. 8d. addition to 113l. 11s. 3d. for the supply of medical sundries during the past quarter as increased war rates.

Birmingham.

The death occurred on Wednesday, November 24, at his residence, Edgbaston, of Mr. Joseph Cole, the head of the firm of Singleton & Cole, Cannon Street, the well-known firm of tobacco-dealers. He was sixty-five years old, and leaves a widow, three sons, and three daughters. He was a native of Cumberland, and started his business career in Liverpool with Cope Bros. & Co. The late Mr. Singleton was his brother-in-law.

On November 24 the Stipendiary (Lord Ilkeston) ordered Arthur Swift (36), storekeeper in the employ of Southall Bros. & Barclay, Ltd., to pay a fine of 5l. for stealing certain goods from his employers. The Stipendiary said that prisoner had abused a position of trust, and richly deserved to be sent to prison; in fact, twenty-six days' hard labour was the alternative to the fine. [The accused is not the Ernest Swift who for the last thirty-three years has been in the employ of Southall Bros. & Barclay, Ltd., in another capacity.]

Liverpool.

The fire staff of Evans Sons Lescher & Webb, Ltd., did good service at a fire in a corn merchant's premises in Seel Street, near the Evans manufacturing premises, on November 26, when a fire broke out there.

"Look at our prices. They will make you keep smiling." "Come in, business as usual. You will find the value that makes true cheapness." Such are two of the notices to be seen in Liverpool pharmacy windows to-day.

A spell of icy cold south-east wind, followed by a rapid falling barometer and sleet, has quickened the demand for bronchial palliatives. With a paucity of doctors, owing to enlistments, there has been a rush to the pharmacists' counters for remedies for coughs, colds, asthma, and kindred ailments.

Manchester.

Pharmacists under the age of forty and their assistants have been busy "attesting" themselves under the new recruiting scheme this week.

Blain & Hankinson, pharmacists, Market Street, have a fine seasonable window-display of red-rubber hot-water bottles. Many other pharmacists are also showing the red variety of hot-water bottle in preference to grey.

Mr. George S. Woolley was re-elected President at the eighty-ninth annual meeting of the Manchester Guardian Society for the Protection of Trade at the Midland Hotel on November 27. This makes his seventh successive year of office.

Many Manchester panel chemists will no doubt be pleased to learn (on Mr. Woolcock's authority) that they can now send dependants' prescriptions post-free by addressing them to the Committee, Military and Navy Dependents, Buckingham Gate, London.

A number of suburban chemists are at present making effective window-shows of "Welleome" fine products. In proof that these window-shows are of an instructive character, it is noteworthy that a South Manchester Council-school teacher told his pupils to study a certain chemist's window-show, where the different fine chemicals were displayed with instructive matter alongside.

November 1915 will long be remembered in Manchester as the worst for fog experienced for the last twenty years (according to the city report). Chemists have had a busy time, and most of them say the returns are far better than they were this time last year, although profits are not so good, owing no doubt to the increased cost of almost everything one sells. There is a famine in dummy teats, many chemists being entirely without the 1d. and 2d. lines.

Sheffield.

Miss E. Binns, of G. T. W. Newsholme, Ltd., Sheffield, has been appointed dispenser at the Bracebridge Asylum.

The Insurance Committee has decided, in answer to the Pharmaceutical Committee asking for their support to retain their staffs for Insurance dispensing, that they cannot take any steps whatever in the matter.

At the Court of Governors of Sheffield University thanks were offered to Professor Wynne and Dr. Turner for their energies and skill in opening the new department in the manufacture of glass. It was decided that Latin should no longer be a subject of the examination for admission to the medical curriculum.

Winter goods are occupying most of the chemists' windows just now. Malt and cod-liver oil seems a favourite line, for whole window-displays Mr. J. Pater's (Fulwood Road) window cannot help attracting, as it contains nicely cartooned jars of malt mounted on single pedestals backed by his highly-finished window-fittings.

The early closing movement among pharmacists is still spreading. Most of the suburban districts are taking it up, but it has had a set-back by the Insurance Committee refusing to allow any alteration until the new list is published. Most chemists are sticking to the hours agreed upon for general business, and some remain for Insurance dispensing up to the time agreed upon with the Insurance Committee.

Miscellaneous.

MERIONETH COUNTY COUNCIL has granted an agri-horticultural poisons-licence to E. Roberts & Co., Tanybryn Shop, Abergynolwyn.

POISONING-CASES.—Among the deaths reported during the week is that of an infant at Doncaster, to whom the child's grandmother had administered laudanum. The jury returned a verdict of poisoning by misadventure.—At Bradford a schoolboy ate some potassium bichromate in mistake for sweets, and died a few days afterwards.—A nurse at Withersfield, Suffolk, suffering from depression, poisoned herself with carbolic acid.

LIGHTS TOO BRIGHT.—At Reigate, on November 25, Mr. Frank Rogers, chemist and druggist, Market Place, was fined 20s. for failing to reduce the intensity of the inside lighting of his pharmacy on November 18.—At Watford last week, Mr. A. W. Barker, chemist and druggist, Watford, was fined 2l. for allowing a light to be seen outside his premises.

FIRES.—In a fire which completely demolished Newman's music-warehouse at Newport (Mon.) on November 27, the shop in Commercial Street of Mr. Charles Paine, Ph.C., which adjoins, was considerably damaged. The stock was damaged by water, and for a time the shop had to be closed. Mr. Paine was about to visit his son in a training-camp when the outbreak occurred.

P.A.T.A. ADDITIONS.—The following additions have been made to the Proprietary Articles Trade Association's Protected List: Allen & Hanburys' anti-coryza wool; Calvert's tooth-powder; De Roos, Johnson & Co.'s Therapion, etc.; Hinksman's asthma-cure; International Chemical Co.'s preparations (all); John Knight's shaving-cups; Sangers' "1814" lavender-water.

SAMPLING MILK.—The Board of Agriculture and Fisheries has issued a circular to public authorities dealing with the question of adulterated milk under the Sale of Food and Drugs Act. A procedure is outlined which it is recommended should be followed of sampling milk direct from the cow in cases where it is thought that a lower percentage of butter-fat is naturally present than that provided by the Sale of Milk Regulations.

RICHARD JEFFERSON DODD, chemist and druggist, appeared before the Highgate Magistrates on November 29 on a charge of being 50l. in arrears on a separation order for 2l. a week in favour of his wife, made in February 1913. Subsequently Mrs. Dodd accepted an offer of 10s. a week, but she had been paid only 3l. altogether. The defendant at one time owned several pharmacies in London, and was reported to make 2,000l. a year. At present he is a dispenser in a military hospital. An offer of 1l. down and 1l. every fortnight, together with a tenth of the arrears, was accepted.

WAR ON GERMAN TRADE.—Article XIV. of the "Evening Standard" series on this subject dealt with the question of drugs and chemicals. It was written by Mr. J. E. Jewell, of Hoppells, Piccadilly, and concluded with the observation: "The advisability of placing a tariff on imported dyestuffs and chemicals must be carefully considered after the war. It is to be feared, however, that this will not of itself provide a sufficient stimulus to home production. Until we are prepared to abandon the typical English business standpoint of requiring an immediate

return for our outlay and, taking a leaf out of Germany's book, spend lavishly now in research for the benefit of the next generation, we shall go on playing second fiddle to a nation we justly abhor."

CHEMIST NOT TO BLAME.—A Rochester Coroner's jury inquired on November 29 into the death of a local military hospital from septicæmia of a lance-corporal. The reason for the inquest was that the man had gone to a local chemist while under military medical treatment, and the assistant had re-banded his head and given him a mixture. There was some suggestion in the course of the inquiry that a chemist had no right to prescribe for a man under official treatment; but Captain G. H. Slack, R.A.M.C., assured the Coroner and jury that the mixture was simply to reduce the temperature, and it is not uncommon for men to go into chemists' shops to get the bandages adjusted. Verdict: "Natural causes."

Irish News.

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Brovities.

Mr. D. T. Boyd, son of Mr. David Boyd, Ph.C., Donegall Square North, Belfast, has received a commission as second-lieutenant in the 2/6th Battalion Scottish Rifles.

At the conclusion of the session of the Lurgan Ambulance Class last week, Mr. A. W. Mann, Ph.C., the organiser, was presented with a pair of solid silver fern-pots, suitably inscribed.

The promotion to the rank of captain was gazetted last week of Lieutenant W. J. McVeigh, 9th Battalion Royal Munster Fusiliers. When the war broke out he was with Mr. W. P. Doohan, Ph.C., Bangor, co. Down.

The Omagh Board of Guardians have received a letter from Mr. Chas. McMullan, analyst, Belfast, stating that he could not accept the offer of an increase of 5l. in his salary. The Guardians have decided to re-advertise for an analyst.

Sir Charles Cameron, public analyst, reported to the last meeting of the Drogheda Corporation that during the past quarter he had analysed one sample each of ginger, cream of tartar, Epsom salt, and linseed-meal, and found them all pure.

The Local Government Board have disallowed the claim of the Clarendon Board of Guardians for recoupment in respect of drugs, valued at 7l., sent to the Ballinlone dispensary district, because no certificate of analysis was produced.

A chrysanthemum show was held at the Warrenpoint residence of Mr. J. Edgar Connor, J.P., Ph.C., Newry, on November 24. The blooms were displayed in the conservatories and the billiard-room. The entrance-fees were applied to liquidating the debt of the Newry Hospital.

White-lead Supply.

Arising out of an analysis by Mr. O'Mahony and a report by the Engineer (Mr. Price) regarding a contract for paints and oils, it was proposed, at the last meeting of the Cork Harbour Board, that the Cork Chemical and Drug Co. be not eligible as contractors to the Board in future. On the suggestion of the Chairman (Sir Jas. Long), action was deferred to give the contractors an opportunity of sending in the result of an analysis by Mr. T. Farrington, M.A.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Aberdeen and the North.

Mr. G. R. Glennie, chemist and druggist, 149 Spital, Aberdeen, was on November 25 fined 40s. by the Sheriff for failing to extinguish or shade the light at the seaward side of his shop. It was stated that the police had been trying since April last to get Mr. Glennie to pull down his shop-blinds.

Dundee.

The Dundee Branch of the British Red Cross Society acknowledges receipt of 1l. 2s. 6d., being the amount over-subscribed by a few chemists and friends for a charitable object.

The funeral of the late Mr. Neil George Munro, Lochee, was of a semi-public nature, and was attended by a detachment of the Auxiliary Force, with which Mr. Munro was connected, under Major Graham Campbell.

A very enthusiastic meeting of panel chemists was held in Dundee on Friday, November 26. Everyone approved

the position taken up on the question, and seemed delighted at the opportunity now afforded to express the dissatisfaction which has been felt since National Health Insurance dispensing was inaugurated. Boots' local manager was present. It is understood that Boots, Ltd., have not withdrawn from the panel, and do not approve the present action, thinking a conciliatory attitude would have been better.

The writer of "Here and There" in the "Evening Telegraph" says: "Our Scottish chemists are sorely troubled because Prussian militarism has been established in the Department of National Health Insurance. An English Kaiser seems to have decided that Scottish Insurance Committees and Scottish chemists are serfs, and must submit to any and every autocratic decree. . . . The chemists have been carrying on national health business as usual under very difficult conditions, and all who are acquainted with the situation will support the fair and patriotic attitude of the chemists . . . who (he adds) are rendering very valuable services and supplying medicines without receiving fair recompense."

Edinburgh.

Rumour is a lying jade. It was freely said here on Monday that the Government had commandeered all the qualified assistants in Scotland, in order to work Insurance dispensing through them.

The Edinburgh District Chemists' Trade Association intimates that the Committee has come to the conclusion that the present time is opportune for a bold endeavour to be made to shorten the hours of labour by closing at 8 p.m. (Saturdays 10 p.m.), but a canvass of the city will be made at an early date. The Committee recommends that New Year's Day be observed as a holiday instead of the preceding Wednesday afternoon.

Fife.

With one exception, Kirkealdy Burgh panel chemists have handed in their resignations to the Insurance Committee.

Mr. Charles Stewart, chemist, High Street, Kirkealdy, has on view an artistic selection of the Royal Violin goods. Mr. R. S. Herd, High Street, makes a feature of Zillon rheumatic-cure, while he has a pleasing toilet-display. Mr. G. B. Key has a nice display of manumollient cream, powder, and soap, and a prominent card drawing attention to the dispensing department. Mr. J. Peebles' strong point is I.R. hot-water bottles.

Glasgow and the West.

Councillor Raffan, Stirling, is one of the canvassers under Lord Derby's scheme.

Ayr chemists decided last week to terminate their agreement to dispense gratuitously for *all* soldiers' and sailors' dependants.

Invitations have been received by doctors and pharmacists to attend the exhibition of alien enemies' goods, opened in Glasgow on November 29.

The salaries at present being paid to unqualified assistants in Glasgow and Scotland generally are higher than those paid to qualified managers fifteen to twenty years ago.

On Saturday, November 27, a girl was killed at Kirkintilloch by being struck with a piece of an acetylene-gas cylinder, which exploded in a yard, and several people were injured.

The fresh "boom" on the rubber-market has had the effect of speeding-up sales in rubber hot-water bottles. As mentioned in a recent issue of the *C. & D.*, prices are little over what they were in normal times, but chemists are now pointing out to customers that manufactured rubber will move upwards in proportion to the raw material.

The absence of special night-fees is the reason why the night-bells are abused in Glasgow. The public think little of the strain put upon chemists' staffs at the present time, and not infrequently the night-bell is rung for paltry purchases and repeat prescriptions. It is suggested that chemists should adopt a uniform night-fee, and thus ensure only genuinely urgent calls.

All panel chemists in Glasgow, including appliance-makers and Co-operative Stores, have sent in their resignation notices to the Insurance Committee. Only one of the "bodies corporate" has as yet failed to send in the notice, and their notice is still expected. The Glasgow Insurance Committee, as far as can be seen, are likely to take an exactly similar view to the Renfrewshire Insurance Committee (p. 45).

Perth.

Mr. Thomas Harley, manufacturing chemist, 29 High Street, Perth, completed his twenty-fifth year in business on October 20, and his customers of this week are having

a series of semi-jubilee gifts—namely, a box of tooth-powder to every purchaser of a 1s. tooth-brush; a special unbreakable comb with every purchase of a 2s. bottle of Rexall hair-tonic; a 1s. box of shampoo-powders with a 5s. 6d. hair-brush; a vanity-box with every purchase of a 1s. bottle of skin-cream; a cake of toilet-soap with every purchase of a shillingsworth of general goods; and a 1-lb. box of chocolates with a 5s. purchase; while a favourite flower is given to all customers. The business, which Mr. Harley purchased in 1890, had been carried on for fifty years before by the late Mr. Gowans. Mr. Harley, by originality and energy, has developed it greatly, and added the manufacture of "Rodine," which has made his name world-known.

French News.

(From the "C. & D." Paris Correspondent.)

AN ASPIRIN FRAUD.—In further reference to the sale of salicylic acid and magnesium sulphate as aspirin (see *C. & D.*, November 27, p. 41), it is stated the stuff was introduced into France by a commission-agent at Marseilles, who represented that the aspirin came from Italy.

PRO PATRIA.—Four of the nephews of M. Charles Buchet, director of the Pharmacie Centrale de France, have distinguished themselves during the present war. One—Lieutenant Robert Gaudron—fell wounded, in August 1914, during a bayonet-charge at Joulmay (Meuse), only a few yards from his father's house; he has never been seen or heard of since. Three others have been cited in Army Orders—M. Charles Gaudron (dentist in time of peace), M. Guy Gaudron, and Dr. Kerrest, army surgeon.

LYONS FAIR.—There is to be held at Lyons from March 1 to 15, 1916, a fair of samples of merchandise on the lines of the Leipzig Fair. The Lyons Fair will not be an exhibition or market in the ordinary sense, but a place where merchants will receive orders for delivery subsequently, as arranged. The Lyons Fair is subsidised by the local authorities and is under the patronage of the French Government. It is only open to the goods made in Allied or neutral countries, and special penalties attach to any merchants who offer for sale articles made in enemy countries. It is intended to make the Lyons Fair an annual event. Further particulars can be had from the Lyonesse Society for the Development of French Commerce, 19 Place Bellecour, Lyons, or from Mr. Bernheim, 122 Rue Réaumur, Paris.

STREET NAMES.—A Parisian municipal Councillor has proposed to re-name the Rue de Hanovre (a well-known thoroughfare near the Grands Boulevards of Paris) the Rue Bernard Courtois, in honour of the discoverer of iodine. Referring to this subject of the name of streets, a pharmaceutical journal points out that Chartres (the town west of Paris, whose cathedral is as remarkable in its way as Rheims itself) possesses a Rue Delacroix. Probably few are aware that M. Delacroix was Mayor of Chartres when it was occupied by the Germans in 1870. He thus negotiated the terms on which the invaders entered the place. He was subsequently Senator for the Department until his death in 1887. In acknowledgment of the public services he rendered to his town and district his name was given to the street in which his pharmacy still stands. The business remained in the hands of his son till 1912, when it passed to the present possessor, M. Paul Blanchard.

OBITUARY.—M. Amédée Odin, who died recently at the age of sixty-seven at Sables d'Olonne, was highly respected there as a pharmacist. The father, who died about twelve years ago, was well known as a botanist, and the son left some interesting works on local zoology. Almost all M. Amédée Odin's life was spent at the quaint and quiet little Vendée seaside-resort, where he fulfilled the functions of municipal Councillor and Mayor in his intervals of leisure, and passed long years behind the counter. His only absences were during his preliminary studies at Poitiers, his military service in 1870—he volunteered to join the army, and fought courageously during the siege of Paris—and his course at the Paris School of Pharmacy—M. Emile Frébault, who died at Nevers recently, at the age of seventy-seven, had been for long years the President of the local Pharmacists' Association. He was also a pharmacy inspector and Secretary of the Hygienic Committee of the Department.

THE ROLL OF HONOUR.—The death is reported of Pharmacist-Major André; of M. Barbault, pharmacist, Mer (Loiret-Cher); M. Laurens, pharmacist, Saïgon, killed in the Argonne as an infantry sergeant; M. Lavergne, pharmacist, Mentone, killed at the battle of Montcourt; M. Lajunie,

pharmacist, Tulle, killed while tending the wounded in the field; M. Damagny, a Bordeaux pharmacist, who fell in the trenches at Bois-le-Prêtre; and Assistant Pharmacist-Major Potiron, who died at Troyes Hospital. M. Léopold Délepine, pharmacy student and infantry sergeant, nephew of Professor Délepine, of the Paris School of Pharmacy, has been killed by a shell near Neuville-Saint-Vaast. He was wounded in September, but had recovered and returned to his post. André Robin, another pharmacy student, son of the President of the Maine-et-Loire Pharmacists' Association, died of typhus at Rosendaal after two months in the trenches near Ypres. Philippe Valat, killed by a shell while serving in a Ypres ambulance, was also a pharmacy student, as well as MM. Amadou, Delettre, and Valiquet, all cited as "killed by the enemy." Among the wounded are M. Emile Lafon, one of the Committee of the Amical Association of Pharmacy Students at Paris, M. Narodetzki, thrice hit at Mesnil-les-Hurlus, and M. Jacques Bongrand, preparator to Professor Moureu at the Paris School, who received a shell-wound in the chest.

Italian News.

FRENCH PHARMACEUTICAL-MANUFACTURERS have presented the Italian Red Cross with 318 beds and their upkeep.

CHEMICAL-MANUFACTURERS are calling upon the Government to requisition all the benzol and toluol produced in gasmaking throughout the kingdom for the double necessity of victory in warfare and success in peace (explosives and synthetic medicines).

MEDICINAL PLANTS.—The Minister of Agriculture is taking time by the forelock, for he has had prepared large tracts of suitable land, at present unused, for growing medicinal plants formerly imported into Italy, and is arranging for a more thorough course of chemistry for all agricultural students.

PHARMACISTS IN THE ITALIAN ARMY now number 1,848. All who have volunteered have now been taken. The others are being called up as required, according to their service qualifications. Some pharmaceutical grievance exists in the ranks, and a letter dealing with it has been censored by the War Office—the first case of the kind in an Italian journal of pharmacy.

ADVANCED PRICES FOR DRUGS are now past mentioning; glassware has advanced 50 per cent.; rubber goods 100 per cent.; surgical dressings are also dearer; alcohol is 50%, to 60%, the quintale more, with, however, an abatement for making chloroform; and still the list is being added to. Many specialities are being raised in price by their proprietors, more to be in the fashion than from actual necessity.

SUNDAY CLOSING.—Complaints have been made regarding the effect of the Ordinance which regulates the hours during which pharmacies in Milan may remain open on Sunday. One-third of the pharmacies remain open in rotation, but the closed pharmacies have failed to exhibit a notice announcing the names and positions of those shops which are open. The offenders have been warned that disciplinary measures will be adopted in future.

PHARMACIES IN ITALY.—The manner in which pharmacists are allowed to start in business is illustrated by the circumstance that in the Province of Como there are four vacancies at present—viz., in Carniate with 3,025 inhabitants, in Dumenza with 2,007, in Lavina with 1,881, and in Trevisago with 1,880. In each case a concession-tax of 100% is imposed, but there is no subsidy. Entries had to be lodged by November 6. These pharmacies would have to be self-supporting, which, with a population of under 2,000, is hardly considered possible in Italy without a subsidy, which is usually obtainable by social, local, or political influence. Another pharmacist is wanted for Alagna Lombellina, Province of Pavia, which has 1,430 inhabitants. The same tax is imposed there. The authorities, however, candidly state that the fate of Count Ugo (to wit, starvation) is the pharmacist's prospect.

AN AFFECTIONATE TRIBUTE.—I notice the *C. & D.* is now costing a penny postage and they only charge 2s. 6d. per annum more, says "Sinapist" in "The Script." That is a real gift to pharmacists, as we cannot do without our familiar weekly; its system of collecting news is the only organised one in pharmacy, and they could justifiably expect us to pay the extra cost. I take my hat off to the *C. & D.* and readily admit it has only one competitor in my affections, and that is the one and only "Script."

Canadian News.

(From the "C. & D." Correspondent.)

DUTY-FREE ALCOHOL for use in manufactures is advocated by the Chambre de Commerce of Montreal. This would enable Canadian manufacturers to compete with the United States, where more favourable conditions apply for the use of alcohol.

OPIMUM-SMUGGLING.—Opium valued at \$5,000 was seized on the steamer *Telamachus* on its arrival at Montreal from Liverpool. Three Chinese sailors were arrested. It is believed that there exists in Liverpool a Chinese syndicate engaged in promoting opium-smuggling.

ADVERTISING OF PROPRIETARY ARTICLES.—The office of H.M. Trade Commissioner for Canada reports, states the "Board of Trade Journal," that the practice of dealing with cut-rate drug-stores in the Dominion has been detrimental to the general chemist business in all the principal cities, and many of the reliable firms will not stock proprietary medicines or other druggists' sundries which are dealt in by these cut-rate stores. In this connection a legal decision recently given at Montreal in regard to the advertising of proprietary articles sold at fixed retail prices may be of interest to British manufacturers and exporters of similar goods: In November 1912 a certain cut-rate drug-stores, which had previously entered into a year's advertising contract with the proprietor of a Montreal daily paper, submitted an advertisement which the defendant refused to publish in the form in which it was written, on the ground that the advertisement was calculated to do injury to certain manufacturers of toilet and shaving requisites, inasmuch as the plaintiff was offering to sell those particular makes at a low price, or even to give away (without stating any price), as a combination of gift and sale. On refusal to publish the advertisement submitted, the plaintiff entered a suit for \$15,000 damages, claiming that injury to that extent had been caused to the business. In summing up, the Court stated that the defendant newspaper had the right to decline any advertisement which it might deem objectionable, and accordingly it did, and could, honestly consider that the items objected to did not embody reasonable cuts or reductions in price, and were so much below the regular price of the said manufactured goods as to be drastic and excessive to the extent of being injurious to the manufacturers. As to the practice of giving away these manufactures in the peculiar combination of offerings in which they appeared, the defendant did, and could, consider such offerings as injuriously reflecting on the reputation and standing of the manufacturers, and of a nature to affect injuriously the manufacturers in their trade. The action was dismissed, with costs. The office of H.M. Trade Commissioner suggests that British manufacturers supplying the Canadian markets with proprietary articles, etc., would therefore do well to instruct their agents to watch developments very carefully, otherwise orders might be received from cut-rate drug-stores which will serve to curtail their sales to the legitimate retail chemist.

Netherlands Notes.

(From the "C. & D." Correspondent.)

Caustic-soda Scarcity.—The Rotterdam correspondent of the "Daily Mail" intimates that there is barely six weeks' supply of caustic soda in Holland, and unless a supply is obtained soon from England or America, the laundries, glass-factories, soap-factories, and crystal-soda factories must close and about 10,000 hands be thrown out of work. [English makers have difficulty in providing for home requirements, let alone exporting.—EDITOR.]

Discoverer of Vulcanisation.—The "Indische Mercur" reproduces from the "Chemisch Weekblad" articles by Dr. W. P. Jorissen, in which he claims that Jan van Geuns (1799-1865) invented the process of vulcanising rubber by means of sulphur. It is generally thought that this discovery was made by Goodyear in 1839, but it has appeared from old factory-books that the vulcanisation-process had already been used in the Haarlem manufactory of rubber, asbestos, and ebonite articles of the firm Merens, by the pharmacist Jan van Geuns before 1823. Mr. van Geuns was the owner of the business at that period, and it appears from the receipts in his books that he was one of the first persons to manufacture rubber articles. The books show that he made use of boiled linseed oil, india-rubber, and amber in 1823, and of turpentine oil, sulphur, carbon, and indiarubber in 1833 for the manufacture of rubber articles. A good many other interesting particulars are given to prove that to Van Geuns is due the invention of the process of vulcanising.

Legal Reports.

Trade Law.

Shops Act.—At Newport (Mon.) on November 26, Barber Quarko, herbalist and a man of colour, was fined 10s. for failing to close his shop in Commercial Street not later than 7 P.M., contrary to the Pharmacists' and Chemists' Closing Order. The inspector stated that defendant gave lectures, and goods were sold similar to those usually sold by chemists. Defendant came to the town on a flying visit.

Aerated-water Company Wound Up.—In the Companies' Winding-up Court of the Chancery Division on November 30, a petition for an order for the compulsory winding-up of R. Thwaites & Co., Ltd., aerated-water manufacturers, of New Kent Road, London, S.E., came before Mr. Justice Astbury. The company was registered in June 1893, with an authorised capital of 50,000l. in 1l. shares. The petitioner was Mr. Edward Smith, Douglas Road, Canonbury. His Lordship was informed that there was no opposition to the petition, and he made the order asked for.

Claim Against Harrods, Ltd.—In the King's Bench Division on Thursday, December 2, Mr. Justice Darling and a special jury commenced the hearing of an action for damages against Harrods, Ltd., brought by a former employé named Thomas William Turner, of Lime Avenue, New Southgate, who complained that he was given a mixture of belladonna, aconite, chloroform, and tincture of capsicum when he went to the chemistry department of Harrods to get something to cure his neuralgia. After counsel had opened the case and explained that the only question for the jury was the measure of damages, Mr. Justice Darling suggested that the case could easily be settled. The parties consulted, and the case was settled on terms that were not disclosed.

Compensation for Disturbance.—The case of Pond v. the City Corporation came before Mr. Justice Bailhache and a jury at the High Court, London, last week. The plaintiff, Mr. G. P. Pond, chemist and druggist, 68 Fleet Street, London, owns the block of buildings at that address, and in connection with the widening of Fleet Street received 2,150l. as compensation, but after the front had been taken out and a new front put in, the City Corporation declared that the side wall in Whitefriars Street was in a dangerous condition, and insisted that it should be pulled down. In connection with this Mr. Pond now sued for alleged breach of warranty, the City Engineer having said it was not necessary to pull down the wall. Mr. E. G. Hemmerde, K.C., for Mr. Pond, said that it was a little surprising to find the Corporation coming into court as defendants to such an action. Mr. Pond's premises probably dated from about the time of the Fire of London. Mr. Justice Bailhache did not think Mr. Pond had made out a case to go to the jury, and judgment was entered for plaintiff for 6l. 9s. 5d., the amount of interest in respect of the compensation, but judgment was given for the Corporation on the other issues.

Limited Companies.

New Companies Registered.

P.C. means Private Company and **R.O.** Registered Office.

SMITH'S ARTIFICIAL-LEG BUREAU, LTD. (P.C.).—Capital, 300l. Secretary: C. H. Munkin. R.O., 12 East Parade, Leeds.

NEPTUNE MILLS, LTD. (P.C.).—Capital 2,000l. Objects: To take over the business and certain assets of Bone & Meiklejohn, chemical manufacturers, Oban. The subscribers are D. Meiklejohn and W. R. Bone.

ADOLPHE, LTD. (P.C.).—Capital 2,000l. Objects: To carry on the business of milliners, dressmakers, tailors, perfumers, chemists, druggists, etc. The first directors are W. B. C. Dobson and B. Schieman. R.O., 3 York Street, Manchester.

BRITISH ASPIRIN, LTD. (P.C.).—Capital 500l. Objects: To carry on the business of pharmaceutical, manufacturing, and general chemists and druggists, manufacturers of and dealers in toilet requisites, medicines, medical preparations, etc. The subscribers are S. L. Morell and J. F. Blasdale. R.O., 14 Fletcher Gate, Nottingham.

BRITISH ULTRAMARINE MANUFACTURING CO., LTD. (P.C.).—Capital 5,000l. Objects: To take over and carry on the business of manufacturers of ultramarine blue carried on by A. T. F. Craven and P. C. Naylor at Sugar House

Lano, Stratford, E., as the "British Ultramarine Manufacturing Co." The gentlemen named are the subscribers and first directors.

A. F. SHIRLEY & Co., LTD. (P.C.).—Capital 2,000l. Objects: To carry on the business of manufacturers of foods, medicines, and appliances for dogs and other animals, etc. The first directors are F. W. Sewell, A. J. Maynard, and Gladys E. Clare. R.O., 46 and 48 Borough High Street, S.E.

Company News.

"SANTAS" Co., LTD.—The directors have declared the usual interim dividend at the rate of 5 per cent. in respect of the year to March 31, 1916.

Births.

Authenticated notices are inserted without charge.

BREINGAN.—At 40 High Street, Harrow-on-the-Hill, on December 1, the wife of W. Breingan, chemist, of a son.

DEMUTH.—On November 20, the wife of R. Demuth, 68 Salisbury Road, London, N.W., of a daughter.

FISK.—At 2 Addison Road, Bedford Park, London, W., on November 27, the wife of Harry Fisk, European manager of Parke, Davis & Co., of a daughter.

HANNA.—At 70 Lower Mount Street, Merriem Square, Dublin, on November 25, the wife of Victor E. Hanna, M.P.S.I., of a daughter.

JOHNSON.—At 249 Narborough Road, Leicester, on December 1, the wife of S. Howard Johnson, chemist and druggist, of a son.

WELCH.—At Bombay, on November 2, the wife of James Welch, chemist and druggist (Thomson & Taylor), of a daughter.

Marriages.

Authenticated notices are inserted without charge.

BATE-MOUNT.—At St. Paul's Church, Scotforth, Lancaster, on November 27, Alexander Bate, chemist and druggist, of Bate & Gorst, Market Street, Lancaster, to Ella Mount, of White House, Eden Park. [Mr. Bate has been acting as chief dispenser at the Bowerham Military Hospital since the war commenced, where his wife, as one of the Voluntary Aid Detachment, was a nurse.]

BRANDER-ALEXANDER.—At Chattanooga, Banff, on November 24, B. M. Brander, Ph.C., to Isabel A. Alexander, chemist and druggist, daughter of Ex-Provost Alexander, Banff.

HUTCHESON-COLLINS.—At Pretoria, on November 3, James Cameron Hutcheson, chemist and druggist, of J. H. Dinwoodie, Johannesburg, to Janet Constance Collins, King's Lynn, Norfolk.

TURNER-THOM.—At Powis Church, Aberdeen, on November 26, William Turner, chemist and druggist, Aberdeen, to Ann Christie, youngest daughter of the late George Thom, granite-merchant, Aberdeen.

Silver Wedding.

HALLER-WATTS.—At St. Mark's, Regent's Park, by the Rev. Sparrow Simpson, on November 29, 1890, George Haller, of 86 Leadenhall Street, E.C., (now of 52 Leadenhall Street, and 197 Albany Street, N.W.), to Agnes Mary, only child of the late David Watts, of 17 Albert Road, Regent's Park, N.W.

Deaths.

Authenticated notices are inserted without charge.

BROWN.—At 43 Ormerod Road, Burnley, on November 29, suddenly, Ellen, wife of Mr. John Brown, chemist and druggist, aged sixty-four. The evidence at an inquest held on the day following was to the effect that a neighbour heard groaning, and when she went into the house found Mrs. Brown dead in a chair. A verdict of death from natural causes was returned.

DOO.—At Netherton, Dudley, on November 14, Mr. James Emile Doo, chemist and druggist, aged fifty-seven. Mr. Doo passed the Minor examination in 1882, and two years later was appointed dispenser at Dudley Dispensary.

This appointment he held until recently, when he retired in favour of his son, Mr. Harold Emile Doo, chemist and druggist.

BUCK.—At 179 Bedford Street, Liverpool, on November 27, Mr. Anthony Smith Buck, chemist and druggist,



MR. A. S. BUCK.

aged fifty-eight. The immediate cause of death was pneumonia. Apparently the last visit paid by Mr. Buck was to the pharmacy of Mr. Barratt, Hythe Street, in order to condole with him on the loss of his son on board the *Anglia*. The two had long been firm friends. Mr. Buck was the elder son of the late Jonathan Marsden Buck, chemist and druggist, whose business he took over twenty years ago. Mr. Buck had long been an active member of the Liverpool Chemists' Association, of which in turn he was elected Hon. Secretary, Vice-President, and President. He had contributed much to the lectures and debates of the Association, and taken an efficient part in propaganda and trade organisation, for which in the Abercromby division his pharmacy formed a centre. In recent years failing health had discounted his energies. As an instance of his good-fellowship and generosity, it is recalled that on the twenty-fifth anniversary of his business career Mr. Buck hired the Liverpool and Shrewsbury coach for the day, and gave his friends an outing, the pleasure of which is a joyous memory. Mr. Buck travelled much on the Continent and in this country, and as a student of ecclesiastical architecture made notes on the numerous cathedrals which he visited. In his own district he gave freely to charity, and often wrote off in his books the accounts of clients who had fallen on hard times. The interment has taken place this week at Bidston, Cheshire. He was a bachelor. Our portrait shows him as he was when the British Pharmaceutical Conference visited Liverpool in 1896, and it will help to recall him to those who then had occasion to appreciate his sterling worth.

HAGLEY.—At Devonshire Villa, Bathwick Hill, Bath, on November 18, Mr. Wm. Thos. Hagley, chemist and druggist, formerly of Ilminster, aged ninety-five.

MILNE.—At 47 High Street, Turriff, on November 24, Mr. George Milne, chemist and druggist, aged sixty-eight. Mr. Milne served his apprenticeship to the drug-trade in Aberdeen, and was with Grattan & Co., Belfast, and later had situations in England with various firms in the Midlands. He passed the Modified examination in October 1877, and three years later acquired the pharmacy in Turriff which had been carried on by Mr. L. M. Millar, also doing business as a professional photographer. At one time he was a member of the Turriff Town Council and a Bailie. He leaves a family of five daughters and one son, Mr. George Murdoch Milne, who succeeds him in business.

ROBINSON.—At 125 South Lambeth Road, London, S.W., on November 23, Margaret Adelaide, wife of Mr. John Robinson, chemist and druggist.

SANDWITH.—On November 20, Mr. Wm. Henry Sandwith, Ph.C., of Sandwith & Son, chemists and druggists, High Street, Bracknell, Berks, and Ascot, aged sixty. Mr. Sandwith passed the Minor examination in 1874. Before he was twenty-one, and the Major in April 1877. He then started in business, being latterly assisted by his son, Mr. Roland Sandwith, chemist and druggist.

Died on Active Service.

BARLASS.—Private John Barlass, 4th Battalion of the Royal Scots, was one of the wounded who were drowned on the *Anglia*. He was formerly an apprentice with Mr. Walter Davidson, chemist and druggist, Blairgowrie.

SENIOR.—On the hospital ship *Dunvegan Castle*, on November 23, of dysentery contracted in the Dardanelles, Trooper John Attenburrow Senior, of the Sussex Yeomanry, aged twenty-two, only son of the late Joseph Senior, chemist and druggist, Eastbourne.

Killed in Action.

GRIMWADE.—Private G. R. Grimwade, who has been killed in action, was the second son of Mr. E. Norton Grimwade, senior partner of Felton, Grimwade & Co., Melbourne, Vic. He was twenty-six years of age, and prior to enlistment in the Army Medical Corps had completed his third year's study of medicine at the Melbourne University. A younger brother is in the British Navy, and an elder brother is a member of the Royal Flying Corps.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

ALDERMAN R. SHORROCK, chemist and druggist, Darwen, is now convalescent from his recent illness.

SIR WILLIAM LEVER, BART., has presented sixty-eight acres of ground to Bolton, his native town.

MISS M. WORLEY, junior dispenser at the Kingston (Surrey) Union Infirmary, has resigned her post.

MR. J. W. E. COLEY, Ph.C., Stroud (Glos.), has been appointed Steward of the Hicks Beach Lodge of Freemasons.

MR. R. A. SYKES, chemist and druggist, has been elected President of the Cleveleys (Fleetwood) Tradesmen's Association.

MR. J. W. DEAKIN, J.P., chemist and druggist, Northwich, has been re-elected Vice-Chairman of the Northwich Salt Compensation Board.

MR. A. E. HOBBS, Ph.C., President of Tunbridge Wells Tradesmen's Association, is the representative of that body on the local Advisory Recruiting Committee.

MR. HERBERT E. CULLWICK, dental manufacturer, Wolverhampton, was installed Worshipful Master of the Lodge of Honour, No. 526, on Friday, November 12.

MR. W. B. FARADAY, pharmacist, recently with the Hoffmann-La Roche Chemical works, Ltd., has joined the staff of E. T. Pearson & Co., Ltd., manufacturing chemists, Mitcham.

THE LATE WILLIAM ROUTLEDGE RIDDLE, chemist and aerated-water manufacturer, of Bell & Riddle, Hexham, left estate valued at 18,194*l.* 17*s.* 5*d.* gross, with net personalty 5,233*l.* 18*s.* 7*d.*

MR. J. H. ARMITAGE, of Taylors' Drug Co., Ltd., Leeds, was a member of the deputation in regard to the recruiting of chemists which waited upon Mr. Charles Roberts, M.P., recently (*C. & D.*, November 27, p. 38).

MR. HARRY JEPHCOTT, pharmacist, has recently passed the Final examination for B.Sc. London with first-class honours in chemistry. Mr. Jephcott served his apprenticeship with Mr. J. Thornton, Ph.C., Redditch, and after obtaining experience in Felixstowe, Liverpool, and Winchester, entered the Civil Service (Customs and Excise). He is at present engaged in the Department of the Government Chemist.

MR. GEORGE PETER POND, whose action against the City Corporation is reported elsewhere in this issue, figured in "The Star" of November 26, a good likeness being supplemented by the following note:

Mr. George Pond is a well-known figure in Fleet Street, where he lived up to a few years ago, when he went to live at Hendon. He has witnessed many changes in the "Streer" since he came to live there nearly sixty years ago, and there is probably not a journalist or tradesman in this centre of newspapers who has not listened with pleasure to Mr. Pond's interesting stories of the Fleet Street of half a century ago.

Mr. Pond never misses, if he can help it, any P.A.T.A. or C.D.A. meeting.

DURING THE THREE MONTHS ended March the imports of drugs and chemicals into the Australian Commonwealth amounted in value to 381,000*l.*, against 335,000*l.* in 1914 and 316,000*l.* in 1913.

BRAZILIAN PALM OIL from babassu-nuts is a new industry for Brazil, and there is every possibility of a large export business being done. An enterprising firm at Maranham has arranged a suitable nut-cracking machine constructed in the United Kingdom for dealing with these nuts, and they are about to order a further 100 machines to facilitate the breaking of the husks. Should these prove a success or not, breaking by hand will continue, and large exports are (says the British Consul at Maranham) bound to be made in the near future. The State of Maranham is so rich in babassu that supplies appear to be inexhaustible.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

THE FINANCE BILL.

It is not anticipated that the Report stage of the Finance Bill will be taken in the House of Commons until next week.

CO-OPERATIVE SOCIETIES AND EXCESS-PROFITS TAX.

It was announced on November 30 in the House of Commons that co-operative societies registered under the Industrial and Provident Societies Acts would be liable to the excess-profits tax.

COLLECTION OF INCOME-TAX.

The Chancellor of the Exchequer is holding a conference with representatives of employers and workmen on December 3 as to the best method of the collection of income-tax under Clause 25 of the Finance Bill.

NEW ARRANGEMENTS FOR DRUG-SUPPLY.

On November 30 Mr. Booth asked the representative of the National Health Insurance Commissioners if a new scheme has been drawn up for 1916 for the Drug Fund in England; whether the Advisory Committee recommended it or any conference of County Committees; and what amount of clerical labour would this new method of calculation involve throughout the Kingdom.—Mr. Charles Roberts replied: Revised arrangements with regard to the drug-supply are being brought into operation for 1916 after consultation with, and upon the recommendation of, the Medical and Insurance Committee representatives upon the Advisory Committee. The clerical labour involved, for which special arrangements are being made, is not expected to entail on balance any additional expenditure.

NITRATE-OF-SODA FERTILISER.

Sir Archibald Williamson asked the Secretary to the Board of Agriculture what was the usual annual consumption of nitrate of soda as a fertiliser in the United Kingdom, and whether the consumption had increased materially during the last ten years.—Mr. Acland replied: The normal annual consumption of nitrate of soda in the United Kingdom is about 120,000 tons, of which it has been estimated that about two-thirds or rather more is used as a fertiliser. There is no evidence of any material increase in the consumption during the past ten years, but I hope that, in view of the appeals made to farmers to increase the production of the land, there will be a substantial increase in the quantity of all kinds of fertilisers required during the present farming year, if adequate supplies can be made available.

BRITISH FIRMS IN GERMANY.

Mr. Fell asked the President of the Board of Trade on November 28 if any British individuals or firms are allowed to do business in Germany under their own names or under the name of a German company in which they have incorporated themselves, in the same way in which German firms of pianoforte-dealers and others are allowed to trade in business in London under colour of English companies?

Mr. Runciman: I have no exact information, but I believe the general German practice is to place such firms under the charge of an official administrator.

Mr. Butcher: Are the English firms in Germany treated with the same latitude and benevolence as the German firms in England?

Mr. Runciman: I do not know exactly how to describe their treatment, but they are subject to very much the same sort of supervision as German firms in England.

Sir R. Cooper: Are all German firms so acting in this country under official supervision?

Mr. Runciman: I cannot answer that question in the form in which the hon. member has put it, and it would have to be put more precisely. The question I have answered refers to British firms in Germany.

LYSOL TRADE-MARK.—The "Hamburger Nachrichten" recently chronicled the fact that the Australian authorities have granted the use of the Lysol trade-mark to Mr. William Pearson. In connection with that matter the "Hamburger Nachrichten" and the "Apotheker Zeitung" roundly abuse Mr. William Pearson, and threaten him with all sorts of penalties from "good" Germans.

SCARCITY OF FATS AND OILS.—At the last meeting of the Berlin Apotheker Verein, the supply of refined suet to pharmacies was discussed. The Berlin Municipality has been asked to put a certain amount of suet at the disposal of the Berlin pharmacists. Dr. Salzmann did not agree, being of opinion that every grain of suet should be used as food, and this opinion is shared by the "Phar. Zeitung."

Pharmaceutical Society of Great Britain.

Council-meeting.

THE monthly meeting of the Council was held at 17 Bloomsbury Square, London, W.C., on December 1. The President referred to the death of Professor R. Meldola and Mr. A. S. Buck (Liverpool). Three letters from the Privy Council, referring to apothecaries' assistants, barium-carbonate poisoning, and the question of placing preparations containing less than 1 per cent. of morphine in the first part of the poison schedule, were referred for consideration to the General Purposes Committee. Nine applicants for assistance from the Benevolent Fund received grants amounting to 129*l.* 10*s.* Members on active service are to have their subscriptions remitted. The report of the Local Associations Executive Committee dealt with the questions of jury-service and the new Insurance Tariff. Mr. Currie made a spirited speech on the drain on chemists' assistants through Army recruiting, and Mr. Gilmour explained the Scottish position regarding pharmaceutical service under the National Insurance Act.

THE Councillors present were: Mr. E. White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. A. S. Campkin, W. G. Cross, J. H. Caff, W. L. Currie, F. J. Gibson, R. L. Gifford, J. P. Gilmour, A. Hagon, J. F. Harrington, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, T. A. White, and J. R. Young. Apologies for absence were received from Messrs. Bilson, Harrison, and Rogers.

DEATHS.

THE PRESIDENT referred to the death of Professor Raphael Meldola, an honorary member of the Society, who was Professor of Chemistry at the Finsbury Technical College for thirty years. In giving further particulars of Professor Meldola's career the President mentioned specially an address which the Professor gave some time ago at the opening of the session of the School of Pharmacy. That address counselled pharmacists to increase their training with a view to meeting the requirements of the future. The President also referred to the death of Mr. A. S. Buck, Liverpool, who filled the office of Divisional Secretary for Liverpool for fourteen years.

Mr. PARRY said Mr. Buck was an exceptional man in pharmacy. Large in body, his intimate friends knew he had also a large heart. Mr. Parry also referred to the successful period in the history of the Liverpool Association during the time Mr. Buck was an official.

ELECTIONS, ETC.

One member and one student-associate were elected; Eight persons were restored to their former position in the Society, and the names of two persons were restored to the Register of Chemists and Druggists. The Secretary reported that thirty-four apprentices or students had been registered during the month.

CORRESPONDENCE.

THE Privy Council Office forwarded for the observations of the Council a letter from the Association of Certified Dispensers with reference to the registration of Apothecaries' Hall Assistants under Section 4 (b) of the Poisons and Pharmacy Act, 1908. This was referred to the General Purposes Committee.

Other letters from the Privy Council called attention to a case of poisoning by barium carbonate, and to the question of placing in the first part of the poison schedule preparations containing less than 1 per cent. of morphine. These communications are also to be considered by the General Purposes Committee.

The Colonial Office transmitted a copy of a despatch from the Governor of the East Africa Protectorate relating to the enactment of the Drugs and Poisons Amendment Ordinance, 1915, and asked for observations thereon. The Secretary reported that there were no observations necessary.

The Colonial Office also acknowledged the letter from the Society with regard to certain enemy firms in the

Straits Settlements, and stated that the Department has recently communicated with the Governor of the Colony on the matter.

The Scarborough and North Riding Association forwarded copies of resolutions respecting the new Tariff and other matters. The Association criticised the action of the Society in suppressing the discussion of the new Tariff in its "Journal," and in withholding information promised to Associations. The terms of the new Tariff were also objected to. The PRESIDENT explained that the letter was dated October 18, and was inadvertently overlooked last month. He said there is no desire to exclude anything from the "Journal"; letters, even if they are critical, are always welcomed. He also replied to various points regarding the new Tariff.

FINANCE COMMITTEE.

The TREASURER then submitted the report of the Finance Committee. The receipts of the General Fund during the month were 2,329*l.* 15*s.* 7*d.*, made up as follows: Penalties and costs, 157*l.* 5*s.* 11*d.*; "Journal," 38*l.* 0*s.* 2*d.*; B.P. Codex, 26*l.* 17*s.* 8*d.*; subscriptions, 46*l.* 14*s.* 6*d.*; registration-fees, 73*l.* 10*s.*; school-fees, 55*l.* 11*s.* 11*d.*; election of Pharmaceutical Committees, 3*l.* 10*s.* 11*d.*; ground-rents, 21*l.* 17*s.* 6*d.*; loan, 1,400*l.*; repaid from Benevolent Fund, 500*l.*; sundries, 6*l.* 7*s.* After deducting the payments ordered at the last meeting of the Council there remained a balance of 1,257*l.* 10*s.* 2*d.* The following amounts were recommended for payment: "Journal" and publications, 256*l.* 16*s.* 2*d.*; stationery and office expenses, 18*l.* 7*s.* 5*d.*; current expenses, 620*l.*; salaries, etc., 808*l.* 6*s.* 8*d.*; school and examinations, 35*l.* 2*s.* 1*d.*; law and professional charges, 15*l.* 14*s.*; house expenses, 208*l.* 16*s.*; library 5*l.* 15*s.* 4*d.*—a total of 1,968*l.* 15*s.* 8*d.* The balances on the Benevolent Fund were as follows: Current account, 542*l.* 10*s.* 6*d.* (recommended for payment, 81*l.* 10*s.* 2*d.*); donation account, 231*l.* 15*s.* 11*d.* (after the purchase of 5,000*l.* War Loan); Orphan Fund, 7*l.* 6*s.* 10*d.* (debit balance).

The Treasurer remarked that the repayment made by the Benevolent Fund to the General Fund was the last portion of the debt owing to the General Fund on behalf of property purchased some years ago for the Benevolent Fund. He referred to the purchase of War Loan stock on behalf of the Orphan Fund, and mentioned among the special contributions to the Benevolent Fund the sum of 7*s.*, the proceeds of a weighing-machine, received from Mr. R. H. West, Birkdale.

The report was adopted.

BENEVOLENT FUND COMMITTEE.

The PRESIDENT, in the absence of Mr. F. A. Rogers, moved the adoption of the Report of the Benevolent Fund Committee, which recommended grants amounting to 129*l.* 10*s.* to nine applicants for assistance.

The report was adopted.

Resolutions were passed authorising payments to the annuitants who will be elected this month.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee was next presented by the PRESIDENT. This dealt with matters connected with the school, the fact being brought out that assistance is being given in the Research Laboratory to the War Committee of the Royal Society. An account for 9*l.* 18*s.* 6*d.* for house repairs was approved, and the printing of the "Calendar" and "Register" authorised.

The report was adopted.

PARLIAMENTARY AND GENERAL PURPOSES COMMITTEE.

The report of this Committee dealt with a proposal to instruct unemployed Belgian pharmacists in English and in pharmacy, the payment of half salary to members of the office staff who enlist, and a recommendation "that such members of the Society who join or have joined the Army and desire to continue their connection with the Society be relieved of the obligation to pay their subscriptions for the year 1916, and that their names be retained on the register of members."

LOCAL ASSOCIATIONS EXECUTIVE COMMITTEE.

The report of this Committee formed part of the Parliamentary and General Purposes Committee report. The result of the consideration of various matters remitted to the Council was announced. The Committee recommended the Council to make representations at the appropriate time for securing the exemption of pharmacists from petty jury service. The Committee agreed to the co-operation of members of Panel and Pharmaceutical Committees regarding the payment of the expenses. The question of the insertion of the sp. gr. of liquids in the Drug Tariff is to be placed before the National Health Commissioners. The formulation of a scheme for the constitution of a Committee to consider trade matters was deferred. The Secretary submitted a memorandum regarding the detail procedure which might be adopted to ensure a regular and systematic checking of prices. The cost was put at one-fifth of a penny per insured person. The Committee also had before them a memorandum in regard to the advice tendered to Pharmaceutical Committees as to arrangements for obtaining administrative expenses.

The PRESIDENT commented on some of the items in the report, after which it was adopted unanimously.

EXAMINATION SUPERINTENDENTS.

Mr. E. White, Mr. C. F. Henry, and Mr. H. Kemp were appointed superintendents of examinations in London, Edinburgh, and Manchester respectively. Messrs. H. Moon, J. Nesbit, and C. Swinn were similarly appointed deputy superintendents.

RECRUITING ASSISTANTS.

Mr. CURRIE called attention to the position created in pharmacy by the recruiting scheme. Desperate treatment is wanted if preference is to be accorded to Insurance dispensers. Other dispensing business is just as much a public necessity. In regard to the evidence given by the Secretary before Lord Lansdowne's Committee, he said more backing should have been given by the Council. Mr. Currie finished a fervid speech by remarking, "Heaven help the people of Scotland if nothing is done and all the chemists resign from the panel."

The PRESIDENT said everything possible has been done, with the result that chemists are excluded from Army service, and their assistants engaged in Insurance dispensing are also protected.

The point was not considered to be at all clear, and

The SECRETARY confessed that the whole thing is wrapped up in a fog owing to the impossibility of obtaining a straight answer from any Department dealing with the recruiting question.

Mr. CAMPKIN asked when the fog would lift.

SEVERAL MEMBERS: After December 11.

Mr. ROWSELL explained that it is Advisory Committees which will have to make a decision as to exemptions.

Mr. GILMOUR pointed out that there is no absolute exemption. All that could be done would be to place the names in a late class. Even then in no case will the attested man be called up if his services are indispensable to the country.

Mr. PARRY recommended that assistants who go to the recruiting stations should take home the attestation-form and consider it carefully before signing.

Mr. YOUNG, referring to the wording of the Press Bureau notice (see *C. & D.*, November 27, p. 38), said that pharmacists are the only persons legally entitled to use the title "chemist."

Further discussion took place in Committee.

THE SCOTTISH INSURANCE CRISIS.

Mr. GILMOUR asked to be allowed to make a statement as to the position in Scotland relative to pharmaceutical service under the National Insurance Act. The chemists claim the right to continue on the old terms for the duration of the war, in accordance with an understanding arrived at with the Scottish Commissioners. That understanding, however, the Commissioners dispute, although the chemists are perfectly clear on the matter. The Commissioners will allow chemists to continue on the old

terms for six months on condition that by April 30 the chemists will have carried through an inquiry as to the adequacy of the establishment charge. The chemists contend that in war-time they are not in a position to do this, and for the same reason should be left alone. There was no option, therefore, but to withdraw from the panel, and already almost all chemists have sent in notice of withdrawal. In consequence, after December 31 there will be no panel of chemists unless the Commissioners recede from the position they have taken up. Mr. Gilmour wished to make it clear that Scottish chemists are not responsible for the position that has arisen, and are not refusing service, but are willing to continue on reasonable terms. He also mentioned that the necessity, as a whole, of the Dependants Scheme having passed away, Scottish chemists are withdrawing from it, but will take care that necessitous cases will receive free service as hitherto.

This concluded the public business.

North British Branch.

The opening meeting of the session was held at 36 York Place, Edinburgh, on November 24. Mr. David Gilmour in the chair. The CHAIRMAN briefly introduced the lecturer, Mr. R. Stewart MacDougall, M.A., D.Sc., F.R.S.E., Professor of Biology, Royal Dick Veterinary College, and Lecturer on Entomology, University of Edinburgh, who delivered the inaugural sessional address, entitled "Insect and Arachnid Enemies in Camp, Trench, and Field."

Dr. STEWART MACDOUGALL said a feature of the present war as compared with other wars that Britain has waged is the great progress shown on the side of sanitation and the fighting of disease. The Royal Army Medical Corps and the Army Veterinary Department have worked wonders in the way of prevention and cure of disease in man and beast. Insects and arachnids are associated with some of the worst diseases of men and animals in a campaign—*e.g.*, typhoid fever and typhus fever are greatly spread by and due to insects acting as carriers; the three-days fever of the Dardanelles is due to an organism carried by a fly; mange in horses is due to the actual attack by a mite. The insects and arachnids affecting troops and horses were then dealt with by the lecturer under the heads (1) those troublesome but not disease-carriers; (2) those carrying disease; and (3) those which affect food and make it unpalatable. The life-histories, by aid of lantern and microscopic slides were shown of the house-fly as a typhoid-carrier, the smaller house-fly, the stable-fly, the blue and green bottles, the mosquitoes that convey malaria and yellow fever, the lice of men and animals, the sand-fly, fleas, mange and related mites, and beetles and moths destructive to biscuits. The difficulties of fighting insects and arachnids when these are in numbers approaching a plague were pointed out, and in a number of cases measures of prevention and remedy were suggested.

Dr. J. LAIDLAW EWING, in moving a vote of thanks to Dr. Stewart MacDougall, said the studies the result of which had been brought before them had entirely revolutionised the health conditions of malarial and tropical countries during the last twenty-five years. He referred to the fly-pest which forms a particularly aggravating feature of trench warfare. He was interested in the reference to sand-flies in the Gallipoli Peninsula. Having a relative there, he had learned how annoying the pest is. It is nearly impossible in taking a meal to avoid swallowing numbers of these flies, and it is a matter for consideration whether possibly the gastric irritation from which many men suffer may be due to the swallowing of these insects.

Mr. J. J. FORBES, Perth, seconded the motion, which was carried with acclamation.

MEDICAL STUDENTS AND THE WAR.—Dr. A. E. Shipley, of Christ's College, Cambridge, writing to "The Lancet," November 20, quotes from a letter of about a year ago from Lord Kitchener encouraging medical students to continue their studies in order to qualify as medical practitioners at the earliest possible date. He contrasts this with the present eagerness of the War Office to get medical students to join the Army. Dr. Shipley says: "It is of the greatest national importance that a strong effort should be made to save at least third-year men who have recently passed the Second M.B., or who are about to pass it next month."

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

New Pricing Arrangements.

(Communicated.)

The proposed new method of pricing of prescriptions, and the consequent arrangements which will have to be made by Insurance Committees throughout the Kingdom, will affect the existing relations between the chemists and those Committees. As was mentioned in the *C. & D.* last week (p. 51), the English Commissioners have held informal conferences with Insurance Committees throughout the Kingdom and suggested that the country should be divided up into twelve units, each being responsible for the pricing of about two million prescriptions. The Commissioners are of opinion that if Committees will mutually join together for the establishment of such a Central Bureau for this purpose much greater efficiency and economy will be secured.

Insurance Committees are now being pressed to consider these suggestions, and the object of this article is to inquire into the merits of such a system as against an examination undertaken by a particular Committee on its own premises, and to see how the local chemist might be affected in the matter.

The cost of checking in the past has varied with different Committees. Some have been able to perform the work at as low a figure as 10s. per 1,000; to others the cost has been as great as 17s. 6d. per 1,000. The Commissioners desire Committees to approach the matter from a national standpoint, and to endeavour to secure for small Committees a saving in cost by joining larger Committees in one combined scheme.

The advantages of examination on the premises might best be explained through illustrating what actually takes place with a County Borough Committee having at the present time an average of 250,000 prescriptions to deal with, and who have in the past three years been able to perform the work satisfactorily at a cost of about 10s. per 1,000. The work is done on the premises of the Committee by a whole-time official conversant with the prescribing of the practitioners and local conditions. The prescriptions are sent in to the Committee each month within a few days after the close of that month. The examination is completed a fortnight later, and by the 20th of each month the chemist is informed of the amount of his assessed accounts, and is given an opportunity of calling at the offices of the Committee for the purpose of disputing the Committee's calculation or receiving any necessary explanation, so that before the end of the month the chemist can receive the amount of his assessed accounts or such sum as the Committee is at present able to advance, having regard to the Commissioners' estimated available credit. An analysis is also made of the accounts so as to show the number of prescriptions on the prescribing doctors' lists, the average cost per person, and a like cost per prescription. At frequent intervals any questions arising out of the prescriptions are, by a joint arrangement with the Pharmaceutical Committee and Panel Committee, at once communicated to the practitioner and chemist.

Facts in the possession of the checker or Committee constantly suggest cases of doubt as to whether the insured is entitled to Medical Benefit, quantities of medicines ordered, and border cases wrongly included in the Committee's accounts arise, all of which by prompt attention enable the Committee and all concerned to close the matter for that period at the earliest possible moment. The chemist is moreover able to communicate with the Committee whenever he desires explanations or is in doubt. Prescriptions are always available when required, either by the individual chemist or Pharmaceutical or Panel Committee representatives, and nothing is more convincing or satisfactory to the chemist than when he is able to receive a personal explanation on the spot, or to the Committee who know that their creditors are pleased with the system.

Contrast this with what may happen under the suggested new system. A new establishment is to be set up in which will be absorbed as far as possible the existing staffs of Committees engaged on the checking. Not only will an office have to be furnished, but, among others, the following officials are singled out for appointments: Tellers, accountants, pricers, correspondents, qualified technical supervisors, expert totalling officers with adding-machines, a secretary, and probably a chief officer in charge. An elaborate time-table is to be set up in order that the whole month's prescriptions belonging to each Committee can be dealt with during the month; but let us see what may happen. First, there is the necessity for the chemist to

address his month's prescriptions and pay carriage to the central establishment, with risk of delay and loss in transit. Next, a teller will count up the number of prescriptions in order that an advance per prescription may be given to the chemist, but assuming that there is more than one item on a prescription—*e.g.*, an ointment, a lotion, and an appliance—unless special pains are taken which a cursory count will not reveal, the number of prescriptions is certain to be erroneous in the first instance. The individual chemist, Pharmaceutical Committee, or possibly the Pharmaceutical Society of Great Britain might desire to question the subsequent pricing. How can this be satisfactorily done by the former when the prescriptions are returned to the offices of the Committee and the person who has made such assessment is miles away at the central establishment? A chemist naturally desires to clear up any doubtful point when the matter is fresh in his mind, but even a delay of two months may conceivably cause resentment; but what no doubt may happen is endless correspondence and red-tape before the chemist's desire is achieved.

It is clear that however perfect the machinery may be at the central establishment, examination of prescriptions against the Committee's register and possibly examinations by Panel Committees, together with the subsequent settlement with chemists in the locality, will still involve Insurance Committees in much work, so that it would be misleading not to bear this in mind in arriving at the cost to the particular Committee of the new scheme. The three great essentials which all are agreed upon to ensure the success of a scheme are promptness in payment, accuracy in work, and economy. It is submitted that it will be impossible to achieve these in the central establishment, if all charges properly attributable to the work are made, without considerable expense, and that in spite of the recommendations of the Commissioners, Committees will be well advised to consider whether it may be in the interests of themselves and their contracting parties to continue in their tried way and also retain individual control and freedom of action in the future.

There may be no objection to expanding an existing system so as to take in a small Committee who have experienced difficulty in the past; but this is an altogether different matter from taking part in the establishment of what may be an elaborate and costly system, create vested interests, and much machinery which after the war may all go into the melting-pot. In these days of war "economy in all administration" should surely be the keynote, and it might be well worth the while of the representatives of panel chemists to inquire into the matter.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Associations' Winter Session.

ENGLAND.

The Southend Questionnaire.

Mr. Woolcock reports that up to and including November 30 he received 299 postcards of the kind suggested by Mr. Body. They came principally from five or six areas, although a number of them were received in batches of twos and threes from a larger number of areas. In many cases it was difficult to decide exactly what answer was intended by reason of the fact that a number of "Yes" and "No" answers were qualified by the writers. The questions were printed in the *C. & D.*, November 27, p. 57, but may be put briefly thus:

1. Are you a panel chemist?
2. Are panel chemists, if paid in full, overpaid?
3. Is the 1916 reduced standard of remuneration necessary and justifiable?
4. Do you object to a decision being precipitated?
5. Do you approve of Federative principles so as to secure uniform and representative conditions?
6. Would you refuse to accept service if a demand for unreduced remuneration is not satisfied?
7. In view of the state of war, would you prefer to continue service under the current Tariff?
8. Would you prefer to follow the lead of the Conference?

The result of the voting was as follows:

1	...	Yes	292	No	7	Undecided	—
2	...	Yes	1	No	298	Undecided	—
3	...	Yes	2	No	290	Undecided	7
4	...	Yes	131	No	157	Undecided	11
5	...	Yes	283	No	9	Undecided	7
6	...	Yes	268	No	8	Undecided	23
7	...	Yes	258	No	18	Undecided	23
8	...	Yes	22	No	260	Undecided	17

210 allowed the sentence following the questions to stand without amendment or deletion.

Birkenhead.—The Insurance Committee is to pay chemists 90 per cent. of their accounts for the third quarter—total, 6047. 9s. 2d., against 8327. 7s. 9d. in the corresponding period of 1914.

Bolton.—At the meeting of the Insurance Committee on November 25, it was reported as regards the chemists' agreements for 1916 that Bolton will be placed with a number of other towns in Lancashire as a new body for pricing prescriptions; whereupon Dr. Mallett stated that it is impossible to scrutinise all prescriptions. If they had it to do, he would come off the Panel Committee. Dr. Swainson said he would leave also. Alderman Cooper said, if the Panel Committee did not wish to do the work, the new body would do it by arrangement. The Medical Benefit Sub-Committee reported that an analytical check of prescriptions showed that there was a considerable diminution in the number dispensed in the third quarter of this year, namely: (1) 48,104, compared with (2) 60,143 in the second quarter of 1915 and (3) 56,665 in the third quarter of 1914. The costs were: (1) 1,4447. 8s. 10½d., (2) 1,8637. 12s. 1½d., and (3) 1,8177. 18s. 2½d. The average cost was reduced from 7.69d. in the third quarter of 1914 to 7.20d. in the corresponding quarter this year, while the average cost of drugs per person on doctors' lists was reduced from 6.16d. to 4.97d. It was recommended that Mr. Norman Cooke, 154 Blackburn Road, Bolton, be added to the panel. The Sub-Committee also reported upon letters received from the Pharmaceutical Committee, and recommended that the 1916 Tariff should include the Memo. 217 I.C. paragraph as to additional provisions being inserted therein; and it was also agreed, on the suggestion of the Pharmaceutical Committee, to notify the Insurance Commissioners that the wholesale net price-list for the Tariff should be that of The British Drug Houses. Changes in the terms of service by doctors and chemists suggested by the Commissioners were agreed to. The Finance Committee recommended that the following payments should be made to chemists: 2637. 12s. 2d. for 1915; 157. 13s. 2d. for emergency settlement, 1914; 8387. 5s. 9d. for *ex gratia* payments and settlement for 1913; and 8547. 15s. 8d. ditto for 1914, the two latter being subject to the approval of the Insurance Commissioners.

Buckinghamshire.—The Buckinghamshire Pharmaceutical Committee have taken a referendum of panel chemists, with the result that the majority desire to continue on the panel, although great dissatisfaction with the new Tariff has been expressed. The Committee, while emphatically expressing the opinion that the remuneration now offered is totally inadequate to the professional services required, under existing circumstances advise pharmacists to continue the dispensing during 1916. The Committee add that better terms may be secured in the future by earlier united action, and regret that one-third of the pharmacists on the panel did not vote in the referendum.

Burnley.—The Insurance Committee on November 30 decided to add the "additional provisions" clause to panel chemists' agreements. The Chairman and Clerk were authorised to attend a conference at Preston of representatives of Lancashire Committees to divide the county into suitable groups for dealing with chemists' prescriptions, as arranged at a conference with the Commissioners in London last week.

C. nwall.—The Clerk reported at the meeting of the Insurance Committee on November 25 that 63,440 prescriptions for the first half of this year cost 2,0767. 19s. 10d.; for the three months to September 30, 20,705, cost 6837. 13s. 11d.; total 84,145, cost 2,7607. 13s. 9d., compared with 92,463 and cost 3,5077. 0s. 7d. for the corresponding period of 1914; average cost 7.8d., compared with 9.1d. last year.

Devon.—A meeting of the Devon Pharmaceutical Association was held on November 24 at Exeter, to which all the chemists on the panel for Devonshire had been invited. About forty chemists attended the meeting. The chair was taken by Mr. P. F. Rowsell, J.P., who opened the meeting with a statement of the present position in regard to Insurance dispensing. A prolonged discussion followed, after which a resolution was passed accepting the new Tariff and conditions under protest. Mr. H. W. Gadd and Mr. J. Harris reported on the Local Associations Conference, and a resolution was passed regretting that the London Association prejudiced the action of the Conference by accepting the Tariff before the Conference meeting.

Guildford District.—Mr. W. S. Tavener presided at a meeting of the Pharmacists' Association on November 27, when the 1916 Drug Tariff was discussed by him and Mr. Wearing (Woking), Mr. Simpson (Guildford), and Mr. Blaker (Haslemere), after which the following resolution was unanimously adopted, and copies have been sent to

the Surrey County Pharmaceutical Association and to the Insurance Commissioners:

"That this meeting of the Guildford District Pharmacists' Association condemns any alteration in the Tariff which will prejudicially affect the net remuneration which pharmacists have hitherto received for services rendered under the Insurance Act. Therefore, while accepting the 1916 Tariff on trial, it records its conviction that the dispensing-fees and the establishment-charges allowed are both inadequate, and retains the right to require their revision after six months' practical experience of the new Tariff. The desire to refrain from any action to cause confusion at this period of national crisis alone prevents the members of this Association from withdrawing from the panel."

Hertfordshire.—Mr. J. W. Lubbock, chemist and druggist, East Barnet, has been added to the chemists' panel.

Huddersfield.—In the third quarter of this year 23,180 prescriptions were dispensed at the cost of 759*l.* 10*s.*, average 7.75*d.* per prescription. The Insurance Committee decided on November 24 to pay chemists' accounts for 1914 up to 15 per cent. below the net amounts.

Hull.—The dispensing figures for the third quarter of 1915, compared with the corresponding period of 1914 (in parentheses), are as follows: Total charges, 1,337*l.* 1*s.* 5*d.* (1,967*l.* 11*s.* 5*d.*); number of prescriptions, 40,600 (58,271); cost per prescription, 7.89*d.* (8.13*d.*); number of prescriptions over 1*s.*, 6,068, one in 6½; number of prescriptions over 2*s.*, 286, one in 142; overcharges per 100*l.*, 2*l.* 14*s.*; undercharges per 100*l.*, 6*s.* 10*d.*; amount disallowed per 100*l.*, 2*l.* 7*s.* 2*d.*; amount disallowed for appliances, etc., not on the Tariff, 11*s.* 10*d.*; value of three highest prescriptions, 6*s.* 10*d.*, 6*s.*, and 5*s.* 11*d.*

Kent.—The Chairman of the Insurance Committee, at the meeting on November 24, explained the changes in the Drug Tariff for 1916, and the new arrangements for prescription-pricing. He said, instead of each county doing its own, it is proposed to have one big staff, with two or three experts at the head. The central office will probably be in London. In reply to Dr. R. M. H. Randell, he added that ten Insurance Committees propose to join in the scheme, and the number of prescriptions to be dealt with will be about two millions. Mr. J. E. French (chemist and druggist, Sittingbourne) did not like the scheme. He thought the county or district should keep the checking under its own control, for where it had been done otherwise great unfairness had frequently been experienced by chemists. He had had experience of the pricing of prescriptions at Bloomsbury Square, and oftentimes had found they were badly done. [Insurance prescription-checking has practically ceased at 17 Bloomsbury Square, the London and Middlesex checking having been removed to Chancery Lane some time last year.—*EDITOR C. & D.*] The discussion being continued, Mr. Webb said the proposal seemed to be that this new checking staff should be controlled by a Committee, consisting of one representative from each county or district. In Kent they had over 300,000 insured people, and places like Canterbury and Hastings were to have equal representation. The matter wanted carefully looking into. The subject was referred to the Finance Sub-Committee. The special Sub-Committee appointed to deal with negotiations with doctors and chemists for the medical year 1916 recommended that the Panel and Local Medical Committees be invited to submit a Pharmacopœia for consideration by the Committee. Dr. Greenwood explained that the Pharmacopœia would enable doctors to order mixtures by numbers; but the Committee did not like the idea, and the matter was withdrawn. The special Sub-Committee recommended that the Commissioners be informed that, in view of the circumstances obtaining in Kent, the Committee desire to continue the following insertion in the Tariff: "Whenever the term 'Aqua' appears in a prescription, distilled water should be used and charged for." Dr. Coke moved that chemists be asked to show receipts for distilled water so used, whereupon the Clerk pointed out that the Committee could not very well ask chemists to produce receipts; samples could be tested. Dr. Coke then moved that samples be taken, and this was seconded by Dr. Walker; but Dr. Greenwood thought no analysis from a bottle of medicine would show whether the water used had come out of the tap, or whether it was distilled water. The motion was put and lost. The Pharmaceutical Committee had asked for an extension of the period during which the night-fee shall be payable, and the special Sub-Committee recommended that the Insurance Commissioners be asked to provide that as from January 1, 1916, the Drug Tariff for the county shall provide for a night-fee equal to double the ordinary dispensing-fee in respect of all prescriptions marked "Urgent" by the medical practitioner, and dispensed between the normal closing-hour of pharmacists' shops in the districts concerned and 7 A.M. The recommendation was adopted.

Liverpool.—Almost at the eleventh hour the panel chemists of Liverpool were called to an emergency meeting

held at the Yamen Café on Sunday, November 23, to consider the revised Tariff. About fifty attended, and after free discussion a fairly unanimous agreement to essay a further experiment was reached. So little time had been given to the printer and the reading of the proof of the notice that the Conference was actually called for November 23, "1915."

Manchester.—Mr. W. H. Delve presided at a meeting, of about sixty panel chemists, held at 65 Market Street on Wednesday, November 24, to consider the 1916 arrangements for Insurance dispensing. In opening the proceedings Mr. Delve referred to the recruiting arrangements (*C. & D.*, November 27, p. 38), saying that it is unlikely that chemists engaged in Insurance dispensing will be called up. Referring to the Drug Tariff for 1916 he remarked that Manchester chemists will be as well off under it as they were in 1913 and 1914, when they were discounted 15 per cent. The new Tariff is an experiment, and although he thought it is unjust to keep on experimenting at their expense, as the Government had done in the past, he was convinced that they were now working on a sounder principle than they had hitherto done. Mr. G. A. Mallinson proposed that Manchester panel chemists accept service for 1916 on the official terms. This was seconded by Mr. Griffiths, who, however, pointed out things in the Tariff that he did not like, and suggested that the whole of the Tariff should be subject to monthly revision. Other details in the Tariff were criticised by Mr. Hershberg, and Mr. F. W. Bates, as Chairman of the Pharmaceutical Committee, replied to questions, remarking he did not think chemists would be any worse off than they were in 1913 and 1914. As to the 0.8*d.* establishment-charge, it was up to them in Manchester to prove that it is insufficient. Mr. Harry Kemp, Mr. Bygott, and Mr. J. Bell also spoke, and the motion was agreed to. On the motion of Mr. Griffiths, seconded by Mr. Hershberg, a very hearty vote of thanks was given to the Manchester Pharmaceutical Committee for their services during the past three years. Mr. Delve, Mr. Bates, Mr. Kemp, and Mr. Mallinson acknowledged.

Middlesex.—The figures for Middlesex September accounts are: Prescriptions, 53,745; cost, 1,798*l.* 1*s.* 5*d.*; average, 8.02*d.*

Newcastle-upon-Tyne.—A meeting of panel chemists was held on November 18 to consider the question of accepting or declining pharmaceutical service under the National Insurance Act. Mr. T. Maltby Clague was in the chair. There was only a poor attendance of those chemists, and it was decided to canvass the whole of the panel chemists so as to obtain a definite opinion on the matter. At an adjourned meeting on November 25 the canvassers reported that the panel chemists were about equally divided, but the consensus of opinion was in favour of continuing service. A resolution was carried protesting against the inadequate terms, and urging the Pharmaceutical Society to use every endeavour to secure more generous treatment. It was announced that Mr. Clague intends resigning the chairmanship of the Pharmaceutical Committee.

Plymouth.—The Insurance Committee on November 26 authorised the Clerk to attend a meeting for the purpose of drawing up a scheme for a prescription-checking centre, suggested by the Commissioners, and resolved that such scheme should be submitted to the Plymouth Committee.—At a meeting of the Pharmaceutical Committee held on November 26 it was decided to recommend pharmacists to give notice before December 3 to terminate their 1915 agreements, with a view if possible of entering into a new agreement for the first six months of 1916, providing the position is made clear by the Insurance Committee as to the amount of clerical work required and an assurance given that in no case will the remuneration be further reduced by the introduction of stock mixtures, etc. Of fifty pharmacists approached, forty-eight have pledged themselves to this course. At a meeting of the Insurance Committee on the same day a question was asked as to a six months' agreement being acceptable, and the Clerk gave a non-committal reply, from which it appeared that acceptance or otherwise of the pharmacists' demands depends upon the situation developed by the number remaining for a satisfactory service.

Sheffield.—At a meeting of the Insurance Committee on December 1 the Clerk reported on the new agreements for doctors and chemists, and that he had received a letter from the Pharmaceutical Committee, asking that a clause be inserted in the new Tariff, reserving an opportunity of incorporating additional provisions. Mr. J. S. Appleton moved that this clause be inserted, which was agreed to. The Clerk said he had received from the Pharmaceutical Committee a letter containing certain particulars in the proposed terms and conditions of service for the supply of

drugs and appliances for 1916. A letter from the Pharmaceutical Committee as to the use of duplicate prescription forms was ordered to be submitted to the Panel Committee prior to a tripartite conference on the subject. The Clerk reported that he had received letters dated October 27 and November 2, signed by a number of chemists on the panel, that from November 8 they proposed to alter their hours of business. It was decided that the request of the chemists on the list be not acceded to, and that the Clerk draw their attention to the provisions of the regulations and to their agreements regarding the alteration in the hours of business; further that the Pharmaceutical Committee be requested to consider and advise upon any request made in future by chemists or other persons on the list for the supply of drugs and appliances to alter the hours of business as set forth in their agreements. The Clerk advised the usual payment of 75 per cent. to chemists, the amount required being 950*l.* He pointed out that the number of insured persons on the list on October 1 was 170,098, the number allowed to make their own arrangements being 3,100. Payments ordered to be made were tenth payment to chemists 698*l.* 19*s.* and 13*l.* 4*s.* 11*d.* for dressings. The following alterations in panel Formulary prices are necessary for December: No. 1, 1*s.* 3½*d.*; 2, 1*s.* 7½*d.*; 13, 4*d.*; 25, 11*d.*; 48, 1*s.*; 51, 1*s.* 1*d.*; 62, 11½*d.*; 67, 6½*d.*; 69, 1*s.*; 74, 11*d.*; 106, 4*d.* per oz.; 107, 6*d.* per oz.

Southend-on-Sea.—Panel chemists in this area have informed the Insurance Committee that they accept service under the new Tariff for 1916, but express their disagreement with the terms of remuneration provided therein, and reserve the right to demand the revision of the terms of remuneration as soon as better opportunities for negotiation are possible.

Southport.—Mr. Charles Hare presided at a meeting of the Pharmacists' Association on November 26, Messrs. J. Righton, A. S. Rollin, S. Ratcliffe, Smith, J. Joye, A. H. Messenger, F. Battersby, R. H. West (Secretary), Elliott, C. H. Chester, and Corporal Lumb, R.A.M.C. (a qualified chemist), also being present. The principal business was the Insurance dispensing arrangements for 1916. The whole matter was thoroughly discussed, special attention being given to Mr. Body's scheme and the arrangements for pricing prescriptions. The President was of the opinion that if they did not accept the Tariff with regard to the Insurance dispensing, Messrs. Boots would undertake the lot. Mr. Smith proposed, and Mr. Battersby seconded, the following:

"While thoroughly convinced that the terms of the Tariff offered to chemists for the dispensing of Insurance prescriptions are unjust and unremunerative, in view of the unsettled state of the country we accept the terms from patriotic motives, but do so in the hope that in more peaceful times we may find more reasonable consideration."

Mr. Ratcliffe proposed that they do not accept the new Tariff, and Mr. Chester seconded. The whole matter was well discussed, the President, Secretary, Mr. Joye, and Mr. Righton joining in; then the amendment was withdrawn and Mr. Smith's motion was carried.

Wiltshire.—During the third quarter of this year 19,857 prescriptions were dispensed at a cost of 639*l.* 11*s.* 3*d.*, compared with 697*l.* 11*s.* 7*d.* in the corresponding quarter of 1914, when 20,958 were dispensed. The terms for 1916 were mentioned at the Insurance Committee meeting on November 24, and the proposed central pricing was discussed, Mr. J. H. Aplin (chemist) giving the Committee the benefit of his expert knowledge of prescriptions, stating that the Pharmaceutical Committee would be satisfied with the proposed scheme if it is carried out in an efficient manner. The Committee agreed to the principle of amalgamating with adjacent areas for the purpose of pricing prescriptions.

Worcestershire.—At a meeting of the Insurance Committee, when a recommendation was considered ordering the payment of the chemists' accounts to the extent of 90 per cent., Mr. Salter asked why they should pay only 90 per cent., considering that they had received the amount of the goods stated in the accounts. The Chairman of the Finance Sub-Committee stated that this was on the Commissioners' recommendation, and added that there is no Committee in the country which deals with chemists better than this one. Mr. S. Wright said that he understood that some of the articles were supplied by the chemists at actually less than cost-price; therefore he could not understand why they should deduct anything. The Chairman said they would gladly pay the 100 per cent. if the Commissioners would allow them, but they were bound by the instructions of the Commissioners. Mr. Harris remarked that the chemists were very well satisfied, and the incident closed. The new Drug Tariff was adopted with the additional clause as to agreement with the Pharmaceutical Committee.

Yarmouth.—The Insurance Committee met on November 26, when the Clerk reported that by agreement with Mr. W. Hindle (a panel chemist) and Mr. A. H. M. Purse (until lately the Committee's professional checker) he had written to the Commissioners for their ruling as to the correct charge, according to the Committee's Drug Tariff, for 160 grams of pot. brom. supplied by the chemist in January last, in respect of which the Committee had been charged 2*d.*, but which the checker had reduced to 1½*d.* The Commissioners had replied that the interpretation of the Drug Tariff devolves in the first instance upon the Committee concerned; the chemist's agreement provides for an appeal on his part to the Commissioners should he be dissatisfied with the decision of the Committee on any particular point. The Commissioners accordingly suggested that the decision of the Committee should be conveyed to Mr. Hindle, and that it should be left to him to pursue the matter if he considered it of sufficient importance, bearing in mind the Departmental Committee's Report on the Drug Tariff. The Committee resolved that the checker's interpretation of the Tariff rule was correct, and that Mr. Hindle be so informed. A Sub-committee was empowered to arrange for the appointment of a professional pricer of prescriptions, and the Clerk was directed to ascertain whether the Insurance Committees for Norfolk, East Suffolk, West Suffolk, and Cambridgeshire, and for the boroughs of Norwich and Ipswich, would combine for the appointment of a whole-time professional pricer.

SCOTLAND.

Commissioners v. Chemists.

The *casus belli* is depicted by the artist. Scottish chemists consider that Insurance dispensing is a repetition of the story of the empty bottle, there is nothing in it. We are informed that the returns received up to the evening of St. Andrew's Day (Tuesday) from the Insurance areas of Scotland showed that panel chemists back the policy of the General Council of Panel Chemists almost unanimously. It will save space and our readers' time if we summarise reports received since last week (p. 57) by saying that chemists in the following areas have met and unanimously agreed to come off the panel: Ayr, East Lothian, Edinburgh, Inverness (burgh and county), Leith, Midlothian, Moray and Nairn, Renfrewshire, Stirlingshire, Clackmannan and Kinross, Clydebank, and Dumbartonshire. Insurance Committees are beginning to act also. We mentioned last week what Dundee has done, now the Renfrewshire Insurance Committee has passed a resolution containing the following statements: (1) The deadlock has arisen solely through Mr. Charles Roberts, M.P., getting behind the Scottish authorities; (2) no necessity exists in Scotland for contemplating in the course of 1916 any departure from the *status quo*; and (3) unless the present deadlock is ended by December 15 the Committee will invite panel chemists in the area to renew their contracts for 1916 on the 1915 conditions, with an undertaking that, apart from the usual monthly adjustment of prices, there will be no material change in the existing Tariff during 1916. Panel doctors and Committees generally support chemists, Glasgow doctors (*q.v.*) being an exception and the only place where the pre-Act conditions resembled English medical practice of advice and medicine being given by doctors. Sympathy and good will of Insurance Act Approved Societies throughout Scotland has been extended to chemists. Scottish public opinion is also in their favour, and chemists hope that by resolutely standing together they will convince the Insurance Department in London that war-time is a most inopportune period for raising such complicated and argumentative questions. Scottish chemists anticipate that they will be allowed to continue under the honourable understanding still existing between the Scottish Insurance Commissioners and Scottish panel chemists to the effect that the *status quo* will continue till the end of the war if no unforeseen difficulty arises to compel a departure therefrom.

The Pharmaceutical Standing Committee say in their circular of this week: "The firm of Boots is in a peculiar position, being largely English, and having already accepted the English terms. They, nevertheless, express



every sympathy with the Scottish chemists, disclaim all idea of profiting at the expense of the other chemists, think we are entitled to ask *status quo* for a whole year, and are co-operating in the effort to secure better terms. Unfounded rumours contrary to this may therefore be emphatically denied."

Glasgow.—The meeting of panel chemists referred to last week was held in the Glasgow and West of Scotland Chemists' Association Rooms, Hill Street, Garnethill, on November 23. Mr. J. B. McVittie presiding. Mr. Thomas Guthrie, Chairman of the Pharmaceutical Standing Committee, was the first speaker, and was followed by the Chairman, who moved:

"That this meeting of Glasgow panel chemists heartily approves of the policy adopted by the Pharmaceutical Standing Committee (Scotland) with regard to the Pharmaceutical Service for 1916, and assures the Standing Committee of the united and loyal support of Glasgow panel chemists."

Mr. W. L. Currie seconded, and a discussion followed. Mr. Rutherford Hill answering questions. The motion was unanimously adopted, after which Mr. Rutherford Hill, at the request of the Chairman, addressed the meeting.—At a special meeting of the Glasgow and West of Scotland Branch of the Panel Medico-Political Union on November 29, a discussion took place on the present conflict between panel chemists and Mr. C. Roberts. In the course of the discussion it was stated that if doctors had been permitted to retain the dispensing there would not have been the constant conflict between chemists and the Insurance Commission, and it would have effected an enormous saving in the costly machinery that administers the Insurance Act. It was suggested that steps would be taken by panel practitioners to have inserted in the next amending Bill a clause empowering any panel practitioner who may so desire to dispense medicine to his panel patients. The Chairman (Dr. Thomas Colvin) expressed the hope that there would be an immediate adjustment of the difference between chemists and Mr. Roberts. If Scottish panel chemists persisted in their resolve to withdraw from the panel at the end of the present year then many city panel practitioners would dispense medicine to their panel patients on the same terms as the country panel practitioners where no chemist existed.

Renfrewshire.—At the request of the Pharmaceutical Committee the Insurance Committee have instructed the Clerk to forward the prescriptions, after being priced by the Central Checking Bureau, to chemists on request.

Stirling.—At a meeting of the Insurance Committee last week a member said, in regard to the chemists' dispute, that words were not too strong to condemn the unpatriotic action of Sir James Leishman in allowing himself to be made the tool of the English Commissioners in endeavouring to thrust this thing on the Scottish Commissioners. Mr. Roberts's letter showed that if the chemists only kept their backs stiffened they would get what they wanted. Another member said it seemed that this man (Mr. Roberts) had been set up as a little tin-pot god before whom the chemists of Scotland had to prostrate themselves. The Committee unanimously protested against the action of Mr. Roberts and the Commissioners in this matter.

WALES.

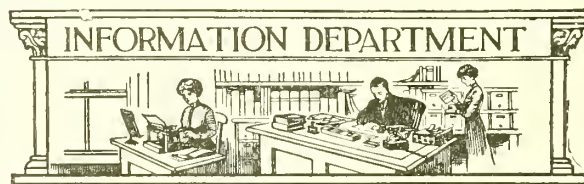
Carnarvonshire.—A meeting of the Carnarvonshire Pharmacists' Association was held on November 24 at Bangor. As the chief business was the consideration of the new Tariff and conditions of service for 1916, every pharmacist on the Carnarvonshire panel had been invited. The President, Miss K. N. Hornblow, occupied the chair. It was evident from the commencement that while the new conditions were generally condemned, feeling both for and against service was very strong. Several amendments having been proposed and rejected, the President put it to the meeting: "Whether they should accept service for 1916 or not." This was carried in the affirmative by a majority of one. It was unanimously decided that the Pharmaceutical Committee should take action to get the giving of "Rept. mist." prescriptions in the area abolished, and also to endeavour to obtain a late fee for dispensing. The Secretary was instructed to write to the Secretary of the Carnarvonshire Insurance Committee that the decision of the pharmacists to continue service was come to with a strong protest as to the conditions, and to point out that (1) the establishment-fee is considered quite inadequate; (2) the system adopted for arriving at the Tariff prices for drugs, etc., leaves no margin for wastage or evaporation; (3) the prices suggested for appliances, etc., are unreasonable; some percentage of profit in addition to the establishment charge ought to be given.

Radnorshire.—It was intimated at the Insurance Committee's last meeting that the late dispensing-fee of 6d. will be allowed on prescriptions marked "Night" and signed by the panel doctor and dispensed between 8 p.m. (formerly 10 p.m.) and 8 a.m. The Joint Services Sub-Committee reported on the official checker's report for January-October, which showed that there was little to complain of as to excessive prescribing. The Committee pays half of the checker's salary, the other half being paid by the Panel and Pharmaceutical Committees.

Notes.

DISPENSING-FEES.—Chemists need have no further doubt as to the incidence of the 0.87. establishment charge, as the Commissioners have decided that the fee is chargeable on each article prepared, no matter how many preparations appear on each prescription.

SCOTTISH TARIFF.—The December circular issued to panel chemists by the Pharmaceutical Standing Committee as to current Tariff prices shows that two new drugs are added and the prices of thirty-three others are altered. Phenazone and quinine salts "again show serious advances, and may increase further."



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| 48/61. "Poulson" vibrator. | 52/6. Upalcerol (Bromural substitute). |
| 42/72. "Blue Cross" baby-powders. | 52/68. Shaped toilet pumice. |
| 47/32. Apical cryst: British makers. | 54/29. "Maravilla Curativa." |
| 47/57. "Samaritau." | 54/57. Wimpole's "Olonol," substitute for metol. |

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| Confectionery machinery, 42/66 | "Radium" pocket-stove, 250/36 |
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| Copper sulphate, 48/45 | Salt-water soap, 15/48 |
| Coudray's face-powder, agents, 29/35 | Santal Midy, 10/581 and 49/73 |
| Crayon's Gyrol, 26/6 | Seidlitz-powder weighing and wrapping machinery, 13/5 |
| "Cryogenine," 10/46 | Shaving-brushes, 39/43 |
| "Dayfield" body-shield, 9/20 | "Shem-el-Nessim," 15/481 |
| "Dot" corn-plasters, 50/5 | Sloans' ointment, 15/484 |
| Drug-mills, 14/57 | Sodox, 50/66 |
| Emulsifying-machine, 41/36 | Tea specially packed for chemists, 27/490 |
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| "Epsoline," 33/7 | "Therapion," 44/40 |
| "Extermo," 38/70 | Thirst-quenchers, 56/19 |
| Glass linings for douches, 36/52 and 43/8 | Thymol, 48/5 |
| Gum tragacanth, 40/37 | Wintersmith's tonic, 36/53 and 69/73 |
| Hemilut substitute, 51/2 | "Zombs," 44/51 |
| Knowlton's "Dandeline," 34/19 | |

Observations and Reflections.

By Xrayser II.

The Starring of Panel Chemists Only

is what I anticipated, and although it may have the effect of inducing a few to remain on the panel who would otherwise have come off, it does not follow that this was the Government's intention. We may compare the case with that of jury-service. Chemists and druggists were exempted from jury-service if they were also sub-postmasters, but not otherwise; that is to say, exemption was granted only to those who were already in the service of the Government. I do not say that there is no difference between the two cases, but the principle is the same in both. Pharmacists have, however, other claims to exemption. If medical men in practice are exempt, and even advanced medical students, why not we? The Government has introduced a great scheme, one main purpose of which is to separate dispensing from prescribing; are the poorer classes alone to have the benefit of this principle? If chemists are necessary to the proper dispensing of Insurance prescriptions, they are surely necessary to the proper dispensing of all prescriptions. And now that there is likely to be a dearth of doctors it would seem that we shall be more necessary than ever. Moreover, we are all administering the Pharmacy Act, which cannot be carried out without us. I do not anticipate that we shall ever be legally compelled to enlist, but we ought to have the same assurance of this as the doctors.

The Comparisons of Insurance Formulæ

which you publish from time to time have already formed the subject of observation in this column, but I am tempted to return to it on reading the interesting series published by you last week. I have seen it mentioned that a limited number only of stock mixtures—usually eight—are to be prescribed, but the few Insurance Pharmacopœias that I have had the pleasure of seeing—I have the Essex and London publications chiefly in mind—have far more than eight formulæ of this character, so that I am at a loss to know exactly what the definition of a stock mixture is. In any case the universal adoption of the idea forms the most complete exposure of the hollowness of the outcry against this method of prescribing with which we opposed the suggestions offered by the Insurance Commissioners. The result has been that, instead of a recognised and regularised series of formulæ which might have been common to the whole country, we see such extraordinary collections as those published last week, where mixtures of the same name but of entirely different character are to be found. Is it wise to stultify ourselves in this way, as we have been doing?

Mr. Kirkby's Address

is the best defence of our claim to professional standing, and the most inspiring call to be worthy of such a position, that I remember to have read, and it has the distinction of recognising that even as professional men we must remain men of business. It has, too, the distinction—though in this it is not unique—of putting the blame of our practical failure to establish our claim precisely where it belongs. We have regarded the examinations merely as a condition of entry into business, not as a means of education. Hitherto it has been impossible for most of us to develop in any higher direction than trade, but conditions are more favourable now, and this is one of the reasons why we must not give up our Insurance contracts. I doubt whether we shall ever, merely as pharmacists, rise to the dizzy heights of bacteriology and the official analysis of foods, but we may reasonably hope to become at no very distant time the sole dispensers of medicine, and not simply "State dispensers." It would be absurd to condemn trade, which will always be a condition of pharmacy, and my chief hope for the future is that as we advance towards a professional status we shall import the professional spirit into our trade.

Distinguishing Colours for Gas-cylinders

is an excellent idea, and it is surprising that it has not been fully developed in this country long ere now. So far as we are concerned, all the cylinders are coloured dark, save in the case of hydrogen and coal-gas, the containers for which are painted red. In addition to this we adopt the further precaution of having the screws for the hydrogen-taps turning to the left, while for all the other gases the screws turn to the right, this arrangement having been adopted to prevent the possibility of mixing oxygen and hydrogen in the same cylinder, as had occasionally happened, with serious explosions as a result. Undoubtedly the Prussian system is a great improvement on ours, as there is no means, beyond a label, which may easily get lost, of identifying an oxygen cylinder from one containing carbonic dioxide, which is decidedly risky when these are being handled by men ignorant of their chemical characters. I hope that our manufacturers of compressed gas will not be unwilling to follow such a useful example. By the way, there is one glaring omission from the list, the Prussians having provided no distinguishing colour for compressed chlorine and asphyxiating gas! Ought these not to be the colour of blood?

Spontaneous Generation

was much talked of in my apprentice days, and the air was thick with the discussions between Bastian on the one hand and Pasteur, Huxley, and Tyndall on the other. At that time Bastian was a young man in his thirties, and it is surprising to reflect on the ability and vigour with which he opposed the giants then living. Looking backward, the tenour of my recollections is that he had always the worst of the encounters, but he stuck to his guns nevertheless, and to the last maintained the truth of his theory. Bastian had opposed to him not only the most advanced (and heterodox) opinion of his day, but also the *vis inertiae* of orthodox theology, a combination that would discourage the most dauntless of men. Some ten years ago the moribund theory flickered into some appearance of vitality when Mr. Burke, a young Cambridge scientist, startled the world with his experiments showing the action of radium on gelatin, which produced certain changes that appeared to prognosticate living matter, but which have since been referred to the domain of chemistry. Notwithstanding the defeat of Bastian's theory, many thoughtful men even yet often ask themselves, if life was once generated in this dead world, why not again?

Part XI. of the Oxyrhynchus Papyri,

just published by the Egyptian Exploration Fund under the editorship of Drs. Grenfell and Hunt, contains a very interesting medical recipe of the fifth century of our era. It consists of five paragraphs, the first of which gives the ingredients of a "purging draught," the fourth and fifth respectively recipes for strangury and for treating wounds, while the second and third consist of theological extracts—in the case of the former from some uncanonical gospel, in that of the latter from a Jewish writing of an apocalyptic character. These, say the editors, were evidently inserted on account of their medical interest, and probably as a kind of charm. Of the purely medical part of the manuscript the paragraph relating to the so-called purge is particularly noteworthy, but unfortunately it cannot all be read with complete certainty. Cummin, fennel, parsley, costus, mastich, coriander, silphium (asafetida), laurel-berries, pennyroyal, salt, vinegar, and ham (?) are the decipherable ingredients, but the last-named, though clearly written, is open to question. Of the other things only two were usually classed among purgers, parsley and fennel, which are two of the "five purging roots." Cummin, coriander, and laurel-berries are carminatives, mastich was included in purges to "temper their acrimony," and costus was regarded chiefly as a stomachic. The recipe for strangury consists entirely of the dry seed of basil-thyme (*Calamintha Acanthos*); that for wounds, of boiled cypress-fruit externally applied.

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Editorial Articles.

Insurance Crisis in Scotland.

THE present extraordinary position of the arrangements for dispensing Insurance Act prescriptions in Scotland is an admirable illustration of the saying that a first false step is followed by others. In this case the first false step made by the Insurance Commission was taken when the Drug Tariff Committee was appointed, and that Committee was misled by medical evidence notoriously arranged by a group of medical malcontents in London. The result of this was a recommendation by the Committee wiping out the existing Drug Tariff based upon equitable and just principles, and substituting for it a commercial basis novel in business and satisfying nobody except the medical malcontents. The second false step was the assumption that what is suitable for discounted areas may be universally applicable, this almost resolving itself into a supposition that what pleases London should satisfy other parts of the country. The facts in regard to the 1916 Insurance Act dispensing and drug-supply agreements have proved how erroneous this is, for in the northern counties of England dispensing chemists are renewing with the greatest reluctance and those in Scotland are practically unanimous in declining to continue their pharmaceutical service under the Insurance Acts. Then came the third false step. Mr. Charles Roberts, M.P., Controller of the Household, is the ministerial head of the Insurance Commission. His predecessors in that office were careful to leave the administration of the Acts in Scotland to the Commission in Edinburgh, which was set up because Parliament recognised that the conditions in Scotland differ from those in England, and should be handled by a distinct body so far as the details of administration are concerned. The panel chemists of Scotland considered how the Drug Tariff Committee's recommendations would affect them, and unanimously agreed that it would injure them seriously in pocket besides degrading their professional status as dispensing chemists which existed before the Insurance Acts were heard of. Mr. Roberts then began, first in an interview with Scottish representatives in October, to play the part of dictator, next got behind the Scottish Commissioners last week (November 24) by issuing a letter signed by Mr. Michael Heseltine and addressed from Wellington House, Buckingham Gate, London, S.W., "To all Panel Chemists in Scotland." If Mr. Roberts had wanted to do something to bring matters to a white heat of resentment, he could not have succeeded better than by this letter. The "Glasgow Herald" very wisely says:

"If the Joint Committee in London were content to leave the question to the Scottish Insurance Commissioners, there is little doubt that a settlement could be reached. The present crisis seems to have arisen largely because the central authorities in London chose to keep the matter in their own hands. When there is a Scottish Commission to consider Scottish conditions, and to administer the Act in accordance therewith, it seems neither wise nor considerate to supplant them in an affair of such importance. Had the working of the Act on the side of the panel

chemists been ineffective or extravagant in Scotland, some reason could be found for the Joint Committee's intervention."

The text of Mr. Roberts' letter has appeared in the leading Scottish newspapers, and copies of it have also been issued by the Scottish Insurance Commission. A reply to it was issued on November 25 by Mr. J. Rutherford Hill, Secretary of the Pharmaceutical Standing Committee, and this also has appeared in the Scottish newspapers. We epitomise the nine points of Mr. Roberts, and add to each in italics Mr. Rutherford Hill's reply:

1. Chemists are reminded that the new Tariff will not come into force until July 1, 1916, and therefore should not refuse to continue service.

Scottish panel chemists' refusal is based solely on Mr. Roberts' rejection of their offer.

2. This denies the accuracy of the Pharmaceutical Standing Committee's statement that "Mr. Roberts has intimated that lower terms than the present minimum rates will be enforced on July 1 next." Scottish chemists have been invited to accept an agreement for 1916 identical in all respects with the 1915 one. The terms may be revised during the year, and will be revised if the Standing Committee produces by April 30, 1916, evidence proving that the Tariff is insufficient.

It is grossly misleading and quite untrue to say that Scottish panel chemists are invited to accept an agreement for 1916 identical with the agreement for 1915. This is precisely what has been refused.

3. A very large proportion of the time of the Departmental Committee was devoted to ascertaining Scottish conditions, and the Committee's conclusions cannot be waved aside as valueless merely because Scottish chemists (who had adequate representation on the Committee) are dissatisfied with its verdict. If the proposed Tariff is inequitable, the Standing Committee should make out their case before April 30. English chemists have undertaken to complete a similar inquiry by then.

Scottish panel chemists were not invited to nominate a representative on the Departmental Committee, and it was with difficulty that they succeeded in getting one witness accepted.

4. Chemists in Scotland would have the right to refuse to continue service after July 1, and can lose nothing by continuing service for the first six months of 1916.

The emphatic protest by Dr. Tocher and Mr. J. P. Gilmour against the main conclusions of the Departmental Committee majority are noted.

5. It is denied that the new Tariff is a serious breach of faith, and that the Scottish Insurance Commission gave any pledge to modify the conditions of the Tariff. An elaborate statement of the case of Scottish chemists was submitted by Mr. Rutherford Hill to the Departmental Committee, and the situation reviewed by the Committee in the light of it.

The honourable understanding between the Scottish Insurance Commissioners and Scottish panel chemists was explicitly stated in a letter to the Scottish Commissioners, October 16, 1914, and accepted by the Commissioners on that date. Memo. 201 I.C. (Scotland) of November 19, 1915, states that "the Commissioners were virtually under a pledge to the medical profession not to alter the conditions of service while a large number of practitioners were on active service." Is a pledge to doctors sacred, and a pledge to chemists merely a "scrap of paper"?

6. The Pharmaceutical Society of Great Britain has recommended the acceptance of the new Tariff, which statement is amplified, this section concluding: "It is a grave misrepresentation to suggest that decisions have already been taken as to the character of a new Drug Tariff to be introduced after the conclusion of the suggested inquiry."

Points out that the dissent of Mr. Gilmour and Dr. Tocher is a fact concealed in the above.

7. The Standing Committee's statement that the terms of the new Tariff are 20 per cent. lower than the existing Tariff is denied, on the ground that the figures submitted to the Departmental Committee indicate a much smaller percentage reduction, particularly in Scotland; and after quoting Paragraph 43 of the Committee's Report (see *C. & D.*, September 13, p. 45), the section continues: "The Scottish chemists will no doubt realise that, in view of the present urgent need for national economy, no Minister of the Crown could justify the continuance of payment out of public funds on a scale which was admittedly excessive."

Abundant proof has been submitted to Mr. Roberts that the proposed prices would result in 20 per cent. lower rates.

8. Mr. Roberts assures Scottish chemists that the savings realised in each part of Great Britain under the proposed

Tariff would be applied in aid of deficits arising in that part, and in no event would moneys in the Scottish National Health Insurance Fund be diverted to the relief of other funds, nor will the results of any Scottish economy be used to liquidate "English extravagance."

It is misleading to say Scottish funds are not to be diverted. Money saved in Scotland will be pooled by the Treasury. The 60,000l. paid to English chemists last year included the whole Parliamentary grant for two years applicable to meet cost of excessive sickness in Scotland.

9. Refers to the allowance for establishment charges, the only point on which the representatives of pharmacists on the Departmental Committee agreed in making a reservation. Chemists both in England and Scotland have accordingly been asked to submit further evidence on this particular point.

An unfair insinuation.

It is never an edifying spectacle to see Ministers of the Crown engaged in public controversy, especially in regard to the details connected with the administration of their Departments. It is clear from the correspondence which we have epitomised that the whole matter turns upon one point—viz., as to whether or not it was agreed that no change in Medical Benefit administration in Scotland would be made during the war. Scottish chemists have continued their service under the impression that no change would be made in respect to them. The evidence given to the Departmental Committee by witnesses from Scotland was understood to be for the purpose of helping the Committee in the main issue, but now it is clear that the effect has been to bring Scottish chemists into the pool, and it is not unnatural that they should resent this and stand firm upon the duration-of-the-war arrangement. They are doing so without internal dissent except from Glasgow doctors and a limited company. We should be unwise to predict what the result will be, although it may be known by the time this article is read; but this at least may be said—that in association with very common protests from panel chemists in England and Wales, the conditions of pharmaceutical service under the National Insurance Act are extremely unsatisfactory, and the Departmental Committee has not improved them, but the contrary. Eleventh-hour consideration, combined with a certain measure of patriotic feeling, has induced the majority of dispensing chemists to continue service in the belief that it is not good business; also, that they are being made to pay for losses incurred by excessive prescribing, due either to exceptional industrial conditions or to the indifference of doctors to the financial provisions and their partners in Medical Benefit administration—panel chemists. A remedy for this must be sought by chemists as well as the Commissioners, for both are the victims of the circumstances involved.

Rising Markets.

It has been said in Mincing Lane that it is now practically impossible for those handling chemicals and drugs there to lose money, because with few exceptions prices, since the outbreak of war, have been consistently rising, and judging by present appearances the end cannot be foretold. Indeed, it may be said (although Mincing Laniens would be the last to admit it) that the war has proved a blessing in disguise to them, inasmuch as the Allies and many neutral countries, hitherto customers of Germany, have been compelled to seek supplies in London, and an increased volume of business at very profitable prices has resulted. The fact that Hamburg (London's greatest rival in drugs) is cut off from all supplies has brought many Scandinavian buyers here, and although it is admitted that some of the produce does ultimately reach Germany, it is a kind

of no military value. Thus it is common knowledge that several hundred tons of cassia-bark have been shipped from London to Sweden recently, and this has enabled holders here to get rid of stocks they had been compelled to hold year after year, as the trade in cassia was mostly done direct between China and Germany. Holland since the war has been a large buyer of spices (especially pepper), many thousand pounds' weight of which has been shipped to Rotterdam for German account, which had the effect of putting the spice on the prohibited list. Earlier in the war a large trade was done in gums and resins (including shellac) to Scandinavian ports, but when it became apparent that supplies filtered through to Germany the authorities intervened and permits were required. Russia, France, and Italy have also placed many orders for chemicals and drugs in London at prices several times above the normal, Germany having previously had a large monopoly in these markets. During the past fortnight France has made, and is making, extensive purchases of Japanese refined camphor in this market at steadily rising prices, although, strange to say, values of this product up to the present have been surprisingly low compared with other products. Recently there has been an unusually heavy demand for ipecacuanha by the makers of emetine, and the price has rapidly advanced to 22s. per lb. Imports have been coming along fairly well, but they have been absorbed at a surprising rate. It will be interesting to watch the future of this drug, still higher prices being predicted. The emetine treatment of dysentery is at the bottom of the demand. Quinine, since the export embargo was put on, is quite out of fashion as a speculative medium, and no doubt many of the weak holders have now liquidated their stocks. The export demand for consumption remains good, however, and although permits are readily granted for shipments to our Allies and the Colonies, the United States seems barred by the authorities for the present. We showed in our issue of November 20 (p. 60) that the imports of quinine to London from the United States from June to October 1915 were over 500,000 oz. in excess of our exports to that country, and as our imports of quinine (mostly Dutch) continue on a generous scale, there might possibly be a reconsideration of the position as regards the United States. Undoubtedly the temporary check to exports had the effect of reducing prices to a more reasonable level by putting an end to rash speculation, which seriously menaced the future of the chemical. It is difficult to say if we are to see lower prices for cod-liver oil this winter. Undoubtedly the action of the Norwegian makers in advancing prices last July to between 350s. and 370s. per barrel had the effect of checking consumption, and was resented by wholesalers, but it would appear that Norway was to a large extent independent of British consumers, who have since only bought sparingly, and now work with a low stock in view of the new fishing in January. The position of several industrial chemicals has lately become more acute, and makers and importers have difficulty in meeting the active consumptive demand—*e.g.*, this week alone we announce advances in borax, boric acid, saltpetre, alum, green copperas, and bichromates. In several instances the rise is due to increased cost of packing and packages—so much so that these items are out of proportion to the intrinsic value of the goods. Many of these heavy chemicals are in short supply, these including articles like caustic soda, bleaching-powder, chlorates of potash and soda, sulphate of

copper, nitric and sulphuric acids, lead salts, potash permanganate, carbonate, caustic, etc., and no relief is looked for while present economic conditions prevail.

Malt and Oil.

A FORTNIGHT AGO we commented upon the low retail prices at which malt extract and its combination with cod-liver oil were being sold in London. This was due to the fact that store prices were low, but we are able to report this week that these have been advanced to 1s. 2d. per 1-lb. bottle of the malt and oil, and 2s. 2d. for the 2-lb. bottle, so that those retailers who follow store prices keenly now have the opportunity of making more money, or of losing less, according as to whether or not they bought in advance. In this connection we regret to note that the Organisation Committee of the London County Pharmaceutical Association has sent out to wholesale houses a somewhat foolish circular letter, in which the Committee "strongly protest against the abnormal prices now being charged by wholesale chemists for malt extract and malt extract and cod-liver oil." In this matter the Committee is neither prudent nor wise, the present prices being solely due to increased cost of materials and of production, as was explained in our issue of November 20. The ability of stores and companies to sell at prices approximating to current wholesale rates was due to the fact that they had bought well—one of the accomplishments for membership of an Organisation Committee.

"Southall."

SOMETIMES a pharmaceutical text-book is known by the name of its author, but it has to be a good book and a favourite in order to attain the distinction. This has happened with Southall's *Organic Materia Medica*, a new edition of which has been published this week. The book, as written by the late William Southall, F.L.S., and first published in 1871, was a 16mo of eighty pages, and several editions of it were published during his lifetime. It was a favourite from the first. Then the late John Barclay, B.Sc., Ph.C., became the editor and prepared the fifth edition of 332 8vo pages, retaining the better features of Mr. Southall's book but bringing the arrangement into conformity with the changes brought about by two decades, and incorporating scientific and technical data that made the *materia medica* of greater value in the pharmacy. The eighth edition now published has been revised and enlarged by Mr. Ernest W. Mann, B.Sc., F.I.C., pharmaceutical chemist, principal chemist to Southall Brothers & Barclay. It extends to 410 pages and retains the Barclay form of arrangement. Students will find it especially serviceable for them in preparing for the Minor and Major examinations, the commentary upon official drugs being concise and to the point, while the unofficial drugs are described clearly and intelligently, and the notes on the chemistry of drugs and their sources are well done. Externally the book is a fitting supplement to the British Pharmacopœia, being of the same size and of similar appearance. It is a text-book which pharmacists who have passed their student-days will retain as being of service in business.

Ipecacuanha in Dysentery.

THE "British Medical Journal" (1915, II., 727) publishes a series of articles on the amœbæ and ipecacuanha. The life-history of amœbæ—the cause of amœbic or tropical dysentery—is first dealt with, then follow articles on ipecacuanha and its alkaloids and the history of ipecacuanha in dysentery. In the last-named article it is stated that ipecacuanha was first employed as a secret

remedy for dysentery by Helvetius in 1686, and he sold the secret to the French Government, by which the composition was made public. Other articles in the series are on the use of emetine in dysentery, the prevention of relapse after emetine, and amoebic carriers. These papers embody the results of recent research-work in various parts of the world, and are well worth studying by those interested in the subject. Sir Dyce Duckworth followed them up in the issue of November 20 by recalling articles which he contributed to the "Saint Bartholomew's Hospital Reports" in 1869 and 1871. In these Sir Dyce quoted from a private letter which he received from Sir Robert Christison stating that Marcgraf and Piso first made the virtues of ippecacuanha known in Europe, and recommended 1 or 2 drachm doses in dysentery. Reference is also made to other old-time authorities in connection with the drug, such as Sherard the botanist, Mark Akenside the poet, Legras the Paris merchant, and Helvetius; but Wootton's "Chronicles of Pharmacy" takes the history further back than any of the dates mentioned in our contemporary, and we quote from this later work:

Although several earlier allusions to ippecacuanha have been found, the first being in an account of Brazil by a Portuguese friar, given in Purchas's "Pilgrimes" (1625), where the medicine is named Igpecaya, and is described as a remedy for the bloody flux, its effective introduction to European medicine was in the year 1686, when Louis XIV. bought from Jean Adried Helvetius the secret of a medicine with which he had performed a number of remarkable cures of diarrhoea and dysentery. Helvetius, whose original name was Schweitzer, was the son of a Dutch quack, and had gone to Paris to try to sell his father's compounds there.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

TAYLORS' DRUG CO., LTD., have opened new premises at Turner Street, Blyth.

THE BUSINESS of the late S. H. Venables, chemist, Springfield Road, Gorleston, has been acquired by Mr. Kenneth James Rumbold, chemist and druggist, Great Yarmouth.

MR. J. R. HALL, 94 Richmond Road, Kingston-on-Thames, has enlarged his premises by taking in the adjoining shop, where he intends to add stationery and fancy goods as a side-line.

ZIMMER & Co., manufacturers of safety appliances for industrial and other purposes, 35 Finsbury Square, London, E.C., will henceforth trade as the "Mentor Safety Appliances Co." The principals of the firm are British subjects, and all their appliances are of British manufacture.

MR. WILLIAM BARON has acquired the business of the late Charles Jones, Ph.C., 22 Middleton Road, Royton, Lancaster (which he managed for many years), and will carry it on as the "Central Drug Stores." A "Gazette" notice states: "Creditors of the late Charles Jones are required to send particulars of their accounts, on or before January 1, 1916, to Jno. Clayton & Son, Warrington Street, Ashton-under-Lyne, solicitors for Wm. Baron and the executors of Mr. Jones."

ST. LOUIS claims to be the largest manufacturing and wholesale market in the world for drugs, chemicals, and proprietary medicines, and continues to maintain her trade, although business in some lines was depressed and there was considerable shifting of trade last year. The volume of business is placed approximately at 5,416,000*l.*—*British Consular Report for 1914.*

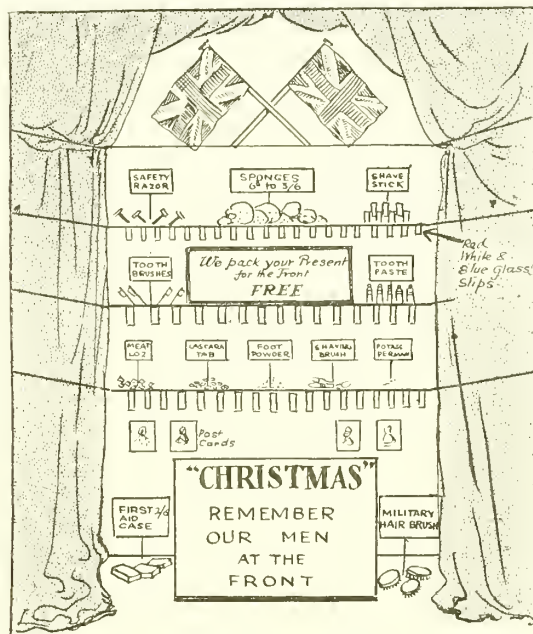
NORWEGIAN KELP.—In Lister, near Mandal, Norway, about 400 tons of kelp has been produced this year. In May to July the weather was favourable, but in August it was unfavourable, and this, together with the export prohibition announced in July, occasioned a smaller yield than in last year. Sales and demand were good; the price rose from 8 to 9 ore to 11 ore per kilo. From May up to the middle of July a great deal was shipped to Scotland *via* Loshavn and Stavanger; since then the kelp has been sold to the Norwegian iodine factories, and what they cannot take is stocked.

Christmas Trade.

A short series of articles on the present opportunity for retail chemists to increase the normal takings by special Christmas sales.

III.—A WAR WINDOW.

In the first of these articles it was hinted that Christmas business this year may not be so good as it was last, because



"economy" is being practised as well as preached, but one thing nobody should forget is that the Useful is Economical, and that is the line for chemists to take. Try your best to induce the public to send useful gifts to our soldiers and sailors. In this lies the antidote for the loss of the usual fancy trade. Cater for presents for our Forces, and consider how the best medium, the window, can be used for the purpose. Each chemist must necessarily adapt the suggestions here given to suit his own window, and vary the contents to suit the tastes of his customers.

The necessary materials required are two Union Jacks and a few yards of khaki muslin, together with a few cards. The contents of the window consist of every available article suitable for the troops or Navy, such as safety-razors, boracic soaks, tooth-brushes, military hair-brushes, sponges, soap-cases, meat lozenges, ammoniated quinine tablets, eascara tablets, first-aid pocket-cases, foot-powder, tooth-picks, shaving-brushes, shaving-soap, antiseptic pastilles, and other little comforts. The wording of the cards and the general variety in the window is sure to result in good business, and an early window will secure the overseas trade, for it will be necessary to despatch early to ensure delivery before Christmas. Place the Union Jacks crossed as shown in illustration, so that they will just overlook the highest shelf, and drape the khaki muslin neatly down the sides of the window. In the centre place a large card bearing the words:

"Christmas!! Remember our men at the front."

On the shelves place smaller cards with the name of the article and price distinctly marked, and on the middle shelf a card stating:

"We shall pack your present for the front FREE."

Get about a dozen pieces of glass of each colour, red, white, and blue (each about 1 in. by 3 in.), and suspend them with strong threads between the shelves. A few postcards of noted soldiers and sailors here and there add to the attractiveness of the window. It is hoped the foregoing may be useful to chemists and druggists as a foundation on which to build a good business-bringing window.

THE exports of "gums and resins" from the Philippine Islands during 1914 amounted in value to 29,592*l.*, against 40,290*l.* in 1913 and 20,005*l.* in 1912. The bulk of this in 1914 was copal valued at 23,000*l.*, of which 16,000*l.* was shipped to British India mostly in transit.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Chaulmoogra Oil.—Dr. Frederick B. Power, F.C.S., Hudson, N.Y. (ex-director of the Wellcome Chemical Research Laboratories), communicates to the "American Journal of Pharmacy" an article on chaulmoogra oil, which is a reply to a badly-informed article by Mr. Probodha C. Chattopadhyay, of Calcutta, which the "A.J.P." published. In the course of his communication, Dr. Power recalls the pains that were taken to ensure that the material used by him and his associates in their conclusive research was genuine chaulmoogra oil obtained from the seeds of *Taraktogenos Kurzii*, King; and he adds that "the description of chaulmoogra oil as given in the British Pharmacopoeia of 1914, which is certainly authoritative, is also perfectly correct, although the so-called physical constants are naturally there given within certain limits, while the figures observed for the particular lot of oil expressed for us were recorded as follows: Melting-point, 22°-23° C.; specific gravity, 0.951 at 25° and 0.940 at 45° C., $[\alpha]_D^{25}$ 15°, +52.0°; acid-value, 23.9; saponification-value, 213.0; iodine-value, 103.2."

Preparation of Ethyl Bromide.—F. E. Weston ("J.C.S.," 1915, p. 1,439) states that text-book methods for preparing ethyl bromide are unsatisfactory in the following respects: (a) A large excess of alcohol is employed, giving a yield of less than 50 per cent. of ethyl bromide on the alcohol used; (b) the formation of ether owing to (1) the large excess of alcohol used, and (2) the high temperature used in the reaction; and (c) the use of potassium bromide instead of the less expensive sodium bromide. It is suggested that by using (1) molecular proportions by weight of absolute alcohol, sulphuric acid (sp. gr. 1.84), and sodium bromide; (2) water (5 to 10 per cent. of the weight of alcohol taken); (3) excess of sulphuric acid to the extent of 5 per cent. of the theoretical weight required, and paying attention to the rate of heating the reaction mixture, a minimum yield of pure ethyl bromide of 80 per cent. of the theoretical on either the alcohol or the sodium bromide can be obtained. With special care the yield may be increased to 90 per cent. It is possible to obtain these yields without the formation of even a trace of ether, thus obviating loss of time and material in purifying the crude product. Full details of the *modus operandi* recommended are given.

Alkaloid-production in Belladonna.—The United States Department of Agriculture has published (Bull. No. 306, by A. F. Sievers, of the Bureau of Plant Industry) an account of investigations on the effects of selection on the production of alkaloids in belladonna. The investigation was undertaken to determine whether the characteristic of alkaloid-production is transmissible to the progeny through seed, and whether the character is changed by vegetative propagation. The results show that the first-generation plants secured from seed of cross-pollinated selected individuals display the characteristic of the maternal parent with regard to alkaloidal productivity. This condition is generally true at all stages of growth during a season, and also for at least two successive seasons. Close pollination of the parent has shown only a moderate influence on the transmission of this characteristic. Second-generation plants from cross-pollination have displayed the relative alkaloid-producing tendencies evident in the original parent plant and the generation preceding. Plants grown from cuttings at two stages of their growth showed a marked tendency to display the same characteristic regarding alkaloid-production as the plants from which they were propagated and the original parents of those plants.

Hexavalent Oxygen.—In a paper communicated to the "Tübinger Chemische Gesellschaft" recently, C. Bülow expounded a new theory of chemical combination based on the hexavalency of oxygen. Working on the suggestion made by Walden thirteen years ago, that under special circumstances oxygen behaves as a hexavalent element in the same way as the other members of Group VI. of the periodic system, Bülow arrives at the conclusion that each element has only one valency under all circumstances, and this valency corresponds with its place in the periodic system, which, he states, should be thoroughly revised. He is of opinion that carbon is tetravalent in all its compounds, nitrogen pentavalent, oxygen and sulphur hexavalent, and chlorine heptavalent. Hydrogen would be trivalent. The aggregates of the water molecule are considered to be different degrees of polymerisation, between the unimolecular vapour, H_2O , and "inactive" ice, $(\text{H}_2\text{O})_n$. When ice is warmed it passes through several phases into vapour, the most active form being that in

which the oxygen and hydrogen atoms are united by one-bond only. In this phase the water molecules have eight free valencies, and by still further raising the temperature the molecule is decomposed into oxygen atoms (hexavalent) and hydrogen atoms (trivalent). The author gives numerous graphic formulae to illustrate this and other points, as well as of inactive and active "diaqua" (i.e., having free bonds), "triaqua," "tetraqua," and "hexaqua." He believes that he has solved the problem of the theory of solution, and extends his theory to several other chemical problems, such as the formation of "double salts." The theories of stereo-chemistry, the differences between aliphatic and aromatic compounds, and the whole structure of chemical theory as taught at present are thrown over by the author.

Coating Enteric-pills.

THE late Dr. Mortimer Granville's idea of concentrically coated pills appears to be getting into favour in the United States, as the "American Journal of Pharmacy" (November 1915) contains two papers on the subject. In one of these Messrs. J. C. and B. L. De G. Peacock describe their experiences in the salol-coating of pills. The results do not go much further than the description in "The Art of Dispensing," p. 142, but the following observations will be found useful:

One of the most important details from the standpoint of practice is the selection of the vessel in which to do the coating. Concave capsules and similar-shaped vessels are not well suited because the pills tend to roll out during the rotation of the vessel, or at least get to some extent out of contact with the melted salol. Flat-bottomed vessels with flaring sides are better suited, because the pills are not so likely to be thrown away from the salol during rotation. But there is still some chance of the pills flying over the flaring sides. The vessel which appears to be best suited is a flat-bottomed white-enamel pan, with perpendicular sides; a handle gives additional convenience to this vessel; a size convenient for coating twenty-four to thirty pills is about 4 in. in diameter by about $1\frac{1}{2}$ in. deep. The inner surface should be smooth. The material of this vessel seems well adapted to the gradual cooling of the salol, a feature which is essential to success. The perpendicular sides of this vessel prevent the pills from flying out, and the flat bottom keeps the pills in constant contact with the salol. For twenty-four pills of 1 grain each 20 grains of salol was usually found to be sufficient for the first three applications, and for the fourth and final treatment about 7 grains additional was required. The vessel having been decided upon, the proportionate amount of salol is placed in it, then warmed over a direct flame just sufficient to melt the salol (a water-bath is unnecessary), and the salol flowed over the bottom and into the angle of the vessel. The temperature is now allowed to fall until the salol is nearly ready to solidify; at this point the pills are placed in the vessel, which is immediately rotated to prevent the pills from sticking together, either from capillarity through melted salol or neighbouring pills or from sudden reduction of temperature coagulating the salol on the pills. A thump against a block or the hand will separate pills which rotation alone does not. Rocking the vessel on the angle will also keep the pills separated and in a motion well suited to proper coating. The pills must not be rotated too rapidly even in the flat-bottomed dish with perpendicular sides, as the centrifugal force may throw the pills against the wall of the dish and out of contact with the salol. Resting the vessel upon the counter or the hand during rotation, and using just enough motion to keep the pills separated gives the best result. The vessel should be rotated or rocked until free from sensible heat. The pills are then turned out into a box. The coat of salol taken on in this first treatment will not usually mask the colour of a black pill. For the second treatment the dish is again heated just sufficiently to melt the salol remaining in it; when it has cooled to some extent, the salol still liquid, the pills are put back into it and rotated as before until cold. The second treatment will show a decided change in appearance. A third application of salol is made in the same manner. This treatment appreciably increases the shell of salol. For the fourth coating it is necessary to supply more salol, usually about one-third of the original amount taken, it being added to whatever remains in the vessel. For the fourth and final coating the vessel does not need to be made any warmer than for the first three coatings, nor is it necessary to transfer the pills to another dish, as suggested by the National Formulary.

In the same issue of the "A.J.P." Mr. William G. Toplis advocates the use of stearic acid as a coating for enteric-pills. He found that melted stearic acid does not do the work properly, but a solution of stearic acid in ether serves the purpose well. The strength of the solution is not stated, but we should think a 1-in-6 solution would serve. Mr. Toplis directs the pills to be put in a porcelain dish of ample size, pour a little of the stearic-acid solution upon the side of the dish (not upon the pills), roll the pills through the liquid until they are covered and nearly dry, then transfer the pills to another dish, clean and dry, and continue the rolling until the coat is quite hard.

Trade Notes.

OLD ENGLISH LAVENDER WATER, "1814," is suggested by Sangers, 258 Euston Road, London, N.W., as a suitable Christmas line.

A CHARMING PICTURE is offered by C. E. Fulford, Ltd., Carlton Hill, Leeds, to retailers of Peps. A reduced monochrome facsimile of the picture is shown in the company's advertisement in this issue.

MR. CHARLES PHILIP, chemist, 23 High Street, Herne Bay, has published at 6d. post free a retail list of war drugs, which enables chemists to see at a glance how much to charge for specified quantities of these.

"CHRISTMAS GIFTS IN WAR-TIME" is the theme of this week's advertisement by Burroughs Wellcome & Co. A medicine pocket-case for military officers is one, and a first-aid pocket-case for motor-cyclists, boy scouts, and the like is the other.

THE BOOK OF HAPPY CHILDREN is something now offered by the manufacturers of Ficolax to retailers for distribution to their customers. Particulars in regard to it may be obtained from the British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N.

"TRADE-MARK NOTES" is the title of a booklet issued by Mr. Reginald W. Barker, patent and trade-mark agent, Vulcan House, 56 Ludgate Hill, London, E.C. It is an interesting publication which those desirous of registering a trade-mark should obtain.

MR. JOHN KEALL, pharmacist and optician, 68 West Hill, East Putney, issues to his customers a telephone list, which is a ruled card 9 in. by 4½ in., with his own telephone number upon it, and also the telephone numbers of nurses, nursing-home, and fire-brigade in Putney.

SOUTHALL'S MATERIA MEDICA, a new edition of which has been issued this week, and is referred to on p. 50, was printed in the private press of Southall Bros. & Barclay, Ltd., Birmingham, and is published by J. & A. Churchill, 7 Great Marlborough Street, London, W., at 7s. 6d. net.

"ASEPSE" is the name given by Edward Cook & Co., Ltd., Bow, London, E., to the 3-per-cent. biniodide mercurial soap which they introduced some years ago, and which has proved its value as an antiseptic and germicidal soap. It retails at 1s. per tablet, or 2s. per box of three tablets.

PROHIBITED EXPORT LIST.—We can still furnish free copies of our 1916 *Diary* list of chemicals, drugs, and allied products the exportation of which is by Proclamation prohibited conditionally. Copies will be sent to those who send addressed and stamped foolscap envelopes to the Editor.

PRICE'S EAU DE COLOGNE is one of the favourites that have replaced the German article, and the manufacturers—Price's, Battersea, London, S.W.—are making a special offer of it in wickered bottles for sale as a Christmas present. The perfume is supplied in wooden boxes of one or three bottles ready for sending by post.

MAW'S IODINE AMPOULES.—S. Maw, Son & Sons, 7-12 Aldersgate Street, London, offer to send chemists a sample of the ampoules of tincture of iodine which they supply to the War Office. Particulars as to price and packing are given in an advertisement in this issue. Some suggestions for Christmas presents are given on "Maw's Page."

SEMREH BOTTLE-CAPS are manufactured by the Viscose Development Co., Ltd., Bromley, Kent, as every chemist knows, but we mention the fact now because we have seen this week an advertisement from a German newspaper, which recommends the saving of metal by using a German imitation of the Semreh caps! There is nothing like the original, though.

STOCK-CARTONS FOR WINTER REMEDIES are manufactured by Suttley & Silverlock, Ltd., Blackfriars Road, London, S.E. These are specially suitable for any "known, admitted, and approved" remedies, which bear the necessary declaration as to composition on the labels, such declaration not being necessary upon the carton. It will be noted that Suttley & Silverlock give a free showcard with each gross of cartons.

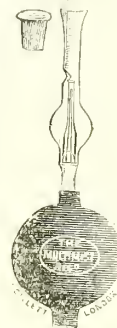
"T-M" SMOKERS' TOOTH-POWDER.—Thomas Christy & Co., Old Swan Lane, London, E.C., are sending out with all orders for their "T-M" tooth-powder a folding card which makes up into a good display-card for the counter, the bevelled front having a perforation for a box of the tooth-powder, and the upright back space for a tooth-brush. The card thus kills two birds with one stone, so to speak. It is a clever, good idea, and we may remind retailers that the minimum retail price of the powder (4½d.) shows half profit.

THE BEECHAM CALENDARS, which are annually provided free by Thomas Beecham, St. Helens, come to us once more. There are four of them, all bearing brightly coloured pictures, and measuring about 10 in. by 14 in., and each has a tear-off calendar. Supplies may be obtained by retailers on application. We may also call attention to Beecham's Family Almanack, the cover of which is novel, the front page showing a pretty medallion on a Chinese matting background, and the back is a catchy design of a shadow on the window-blind. The contents are, as usual, of a nature that attracts and interests country householders.

"WELLCOME" PHOTOGRAPHIC DIARY.—The edition for 1916 of the Wellcome Photographic Exposure Record and Diary has been published this week. It is on the lines of previous issues, which have established so thoroughly the reputation of the work. The section at the end dealing with exposure is of particular interest, and in connection with the ingenious exposure calculator is an infallible guide to the difficult subject of exposure. There are several reproductions of photographs supplied by way of illustration of the uses of B. W. & Co.'s photographic products. The book retails at 1s., and should be on sale in pharmacies as soon as possible, so as to catch Christmas trade.

MULTIMIST SPRAY.—C. J. Hewlett & Son, Ltd., Charlotte Street, London, E.C., have produced a new-pattern atomiser which differs somewhat from those previously invented. The form of the spray is shown in the illustration. It has been specially designed for the treatment of nasal catarrh, hay fever, bronchitis, asthma, and other affections of the respiratory organs and will atomise any kind of fluid—heavy oils, aqueous or spirituous solutions. The "Multimist" can be used with only a few drops of the desired liquid, an important point when working with expensive solutions such as cocaine. It is made of toughened glass and English indiarubber, and there is nothing to get out of order. It can also be easily and quickly cleansed, and if desired may be sterilised by boiling in the usual way.

THE MECCA FOOT-WARMER AND BED-BOTTLE, introduced by Mr. Thomas Swales, Leeds, is an oval white earthenware bottle the shape of a soldier's water-bottle, and has at the shoulders two holes through which a strong cord loop is inserted. The stopper is a screw with rubber insertion, which makes the bottle perfectly watertight. The "Mecca" is made in 2-pint, 4-pint, 5½-pint, and 8-pint sizes, of the finest English Ivory Queen's ware, at Grimwade's Patteries, Stoke-on-Trent, which is sufficient evidence of its quality. It is a novelty which retail chemists can handle at present with advantage to themselves and their customers.



Things Worth Knowing.

By "Hugo."

Liquid paraffin may be emulsified, but cannot be saponified.

Mucilage of acacia should not be used to suspend bismuth salts, because it tends to "flake" them. Tragacanth for bismuth is the ideal suspending-medium.

An old 4-oz. jar and cotton-wool (absorbent) make an excellent label-damper. Fill the jar with the wool, then soak with water, and renew when necessary.

A mixture of glycerin (5) and liniment of soap (95) is an excellent lubricant for suppository and pessary moulds, giving a brilliant smooth polish and a perfect "slip-out" from the mould.

Mucilage of acacia mixed in equal proportions with liquid extract of cascara or other liquid extracts before adding to other ingredients will produce an elegant mixture instead of an unsightly one.

"Allenburys" food tins and similar articles may readily be converted into "powder-scoops" for bins or drawers by cutting a piece of the requisite shape out of the upper surface when lying on its side. This may easily be done with an old pair of scissors.

AN ANCIENT "WHEEZE."—A contemporary states that sometimes medicine is very rough-and-ready in the trenches. A young soldier was suffering from one of the general maladies for which the famous No. 9 pill is usually prescribed. The doctor had no No. 9's on hand, so he gave the patient a No. 4 and a No. 5 with great effect.

News from New South Wales. Proprietary Medicines in U.S.

ALIEN ENEMIES.—On the motion of the Hon. Sir Joseph Carruthers, the Legislative Council of New South Wales on October 7 passed a resolution that the State laws ought to be amended to suspend some of the privileges of naturalised Germans and others of enemy race, further to promote the public safety in time of war. He referred to Mr. Ebeling, chief dispenser at the Victoria Barracks. He would certainly not trust men of alien origin in chemists shops. After a debate lasting five hours, the motion was carried.

ETHER-MANUFACTURE.—At a meeting of the Pharmaceutical Society on October 12 Mr. Gray mentioned that an application had been made by a Mr. Basil Turner, on behalf of manufacturers of ether, for protection by means of a duty on imported ether. He understood the local manufacturers enjoyed sufficient protection by reason of the heavy expenses in respect to deck cargoes, of which ether is one, and by reason of the fact that many cargoes are jettisoned. A protest is to be sent by the Society against the application to increase the duties on ether.

LABELLING KOKO.—At the last meeting of the Pharmacy Board a letter was received from the manager of the Koko Maricopos Co., stating that he was advised that the Koko hair-preparation, which contains 3 per cent. of cantharides, is not a preparation which comes within the scope of Schedule 2, Part 2, of the Poisons Act of 1902. He pointed out the schedule includes "Cantharides, the tincture, and all vesicating liquid preparations," but not that all preparations of cantharides are poisons, as in the case of vegetable products containing poisonous alkaloids, and that the schedule exempts all preparations up to the strength of the official tincture, and over that if they are not liquids. The writer claimed that "Koko" is not tincture of cantharides and is not a vesicating liquid preparation of that poison, and cannot be described as poison any more than bay rum and cantharides compound and scores of other hair-preparations containing a little cantharides as a stimulant. Consideration of the matter was postponed to the next meeting of the Board.

American Notes.

New Dye Company.—The Warner-Klipstein Chemical Co. has been incorporated to manufacture dyes, with a capital of \$500,000, at South Charleston. It is reported that the plant will use a new process by which dyes and colours heretofore procurable only in Germany will be made.

East African Trade.—The United States Consul at Lourenco Marques has been urging upon American pharmaceutical firms the importance of establishing a firmer hold on the Portuguese East African market, and he tells how it is to be done. The attitude of the public towards American pharmaceutical products, he says, is "decidedly cordial," and the only barrier against the American maker dominating the entire market is the price. The total European or white population is, however, exceedingly small, not amounting to more than 10,000 out of a native population of about two millions, the latter not being considered paying drug-consumers. In giving particulars of the duties on pharmaceutical goods, the Consul says: "No legal restrictions are in force for the sale of proprietary medicines, and any trade-mark protected in Portugal can also be protected in her Colonies by the payment of additional fees. The import-duty assessed on patent medicines and all kinds of drugs is: Tariff duty, 5 per cent. *ad valorem*; municipal tax, 25 per cent. of tariff duty; commercial contribution, 3 per cent. *ad valorem*; municipal contribution, 50 per cent. of commercial contribution. The duty *plus* the various surtaxes is equivalent to an *ad valorem* rate of 10.75 per cent." As to the selling of goods, it is remarked that it is not advisable to seek an exclusive agent, but for those specialities which justify an advertising-campaign an agent chosen from one of the three large importing houses that are distributors of general merchandise throughout the coast and the Eastern Transvaal would probably prove more effective than any single pharmacy.

THE EXPORTS OF SENNA from the Sudan during 1914 amounted to 309,266 kilos., valued at £E.5,942, against 309,748 kilos., valued at £E.9,647, in 1913.

At the recent meeting of the American Pharmaceutical Association at San Francisco, a report was presented by Professor James H. Beal, Chairman of the Commission on Proprietary Medicines, containing provisional recommendations of the minimum requirements with which proprietary remedies should comply, in the opinion of the Committee, in order to render them safe for direct sale to the general public:

(1) *Prescription-fakes, Concealment of Proprietary Character.*—The preparation must not be named or advertised in such a way as to conceal its proprietary character and lead the purchaser to believe that it is a simple chemical or vegetable drug ordinarily purchasable in small quantities, instead of a proprietary mixture or substance.

(2) *Methods of Marketing.*—The preparation must be one which is regularly offered to the public through the usual trade channels—i.e., through regular wholesale and retail dealers in ready-made medicines—and thus subject to inspection by the authorities charged with the enforcement of State food and drug laws.

(3) *Alcohol-content.*—If the preparation contains alcohol, it must be sufficiently medicated to prevent its use as an intoxicating beverage, and, in addition to this requirement, the proportion of alcohol present must not be greater than is properly necessary to hold in solution in permanently active condition the essential constituents of the preparation, and to protect the preparation against freezing, fermentation, or other deleterious change.

(4) *Content of Habit-forming Narcotic Drugs.*—If the preparation is one which is capable of being used internally, whether recommended for internal use or not, it must not contain cocaine, nor shall it contain opium or any of its alkaloids or their derivatives, in greater proportions than those specified in Section 6 of the Federal Law commonly known as the Harrison Act, and it shall also contain other active drugs in such proportion that the use of the preparation will not be likely to create a drug-habit, nor satisfy such a habit when previously existing.

(5) *Remedies for Children's Use.*—If intended for administration to infants or children, the preparation must not contain cocaine, or opium or its alkaloids, or their derivatives in any proportion whatever.

(6) *Activity of the Preparation, Cautions Against Misuse.*—The preparation must be of such character that it will not be liable to endanger life or health when used in accordance with the accompanying instructions; and if the preparation is one which is liable to occasion injury when improperly used or when used to excess, the accompanying literature must bear instructions tending to guard against such improper or excessive use.

(7) *Immoral or Illegal Purposes.*—The preparation must not be intended for use as an abortifacient nor for use for any other immoral or illegal purpose, nor must it be advertised or recommended either directly or indirectly as an abortifacient or for any immoral or illegal purpose.

(8) *Incurable and Contagious Diseases.*—The preparation must not be advertised or recommended as a cure for diseases or conditions which are generally recognised as incurable by the simple administration of drugs, or for the cure of contagious or acute diseases the treatment of which properly requires the supervision of a qualified medical attendant.

(9) *Conformity to the Federal Food and Drugs Act.*—Neither the label on the package nor any of the accompanying literature shall bear or contain any statement in conflict with the misbranding provisions of the Federal Food and Drugs Act.

(10) *Advertising not Accompanying the Package.*—Advertising not accompanying the package shall conform substantially to the statements on the label, carton, or in the accompanying circulars as to the origin, composition, or character of the preparation, or concerning its curative or remedial value.

The report embodies the findings of the Select Committee of the House of Commons, and also refers to the investigations of proprietary medicines of the American Medical Association.

CASTOR-SEED.—The exports of castor-seed from India show a considerable falling-off, this being one of the reasons for the advance in castor oil. For the six months (April 1 to September 30, 1915) the exports were 814,361 cwt., compared with 1,167,872 cwt for the corresponding period of 1914.

Associations' Winter Session.

Other meetings are reported under Insurance Dispensing Reports.

Bedfordshire.—At a meeting of the Pharmacists' Association, held at Luton on November 25, it was generally agreed to remain on the Insurance dispensing panel for 1916. A few of the chemists of Bedford intimated that they are withdrawing from the panel. A resolution recommending all non-members in the county to join the Retail Section of the P.A.T.A. was carried. It was also resolved to recommend that an annual registration-fee be imposed for the maintenance of a pharmacist's name upon the Register of Chemists and Druggists. [The expressed object of increasing the Minor examination-fee from 5*l.* 5*s.* to 10*l.* 10*s.* was to provide a perpetual registration-fee of five guineas. This was done, and the present time, when candidates are scarce and economy is rampant, is scarcely opportune for further taxation of this nature.—EDITOR C. & D.]

Cardiff.—A meeting of the Cardiff Pharmaceutical Association was held on November 23, Mr. Eason (President) in the chair. Arrangements were made for a meeting in February to discuss the Proprietary Articles Trade Association. The Secretary then read letters received in answer to the circulars sent to manufacturers of patent medicines and wholesale dealers, but it was decided to leave the matter in abeyance until further replies had been received. The election of officers then took place as follows: *President*, Mr. Fred. Lea; *Vice-President*, Mr. Furnival; *Hon. Secretary*, Mr. J. Mundy; *Assistant Hon. Secretary*, Mr. E. C. Harden; *Treasurer*, Mr. S. B. Eason; *Commercial Secretary*, Mr. H. F. Davies; *Committee*, Messrs. Poole, Taylor, Brines, A. S. Johnson, and Owen Jenkins. The following were co-opted to the Council: Messrs. Hagon, Joseph, and Jabez A. Jones.

Carlisle. A meeting of the Carlisle Chemists' Association was held on November 10 at the Viaduct Hotel. Mr. T. Ridley presided, and there was a good attendance of members. The business before the meeting was the discussion of the new Tariff for 1916, which had very little support. It was finally decided after much debate that the new conditions be accepted, the chief factor in this decision was that the members did not wish to recommend any precipitate action owing to the national crisis. A further meeting was held on November 25, at which the secretaries reported the following correspondence between the Pharmaceutical Society and the Carlisle Chemists' Association. The letter of the Secretary of the Association conveying the decision of the Association to the Pharmaceutical Society stated that

Under the old Tariff the Drug Bill for the City of Carlisle has been about 1*s.* 6*d.* per insured person on an average since the Act came into force, and we have estimated that under the new Tariff the sum of 1*s.* 3*d.* or 1*s.* 2*d.* will be sufficient to cover the cost of the Drug Bill. Presuming this to be the position at the end of 1916, the members of our Association are desirous of knowing the destination of the 3*d.* or 4*d.* difference between these two amounts. Is this sum to be pooled in a central fund to meet deficiencies in other areas, or is it to be distributed *pro rata* amongst the pharmacists on the panel in this area? We shall be glad if you will make this point clear.

The letter also referred to the different treatment proposed to be given to Scotland. Mr. H. S. Phillips, replying for Mr. Woolcock, stated:

I am afraid there is nothing in the new agreement which will enable any balance of the Drug Fund under 1*s.* 6*d.* to be pooled in any area, for the Treasury who are now responsible for financing the Act as it relates to pharmacists' accounts will be compelled to support the overspent areas by an allocation of funds from these areas such as yours.

The letter also referred to the profit on appliances as follows:

With regard to the profit on dressings, you will remember that the old Tariff gave 25 per cent. on the turnover, in other words, 33½ added to cost price. From prescriptions from various areas that have been priced at this office on the 1916 and 1915 Tariffs it has been found that in the majority of cases the profit on appliances will be greater in 1916 than it has been this year. It entirely depends of course upon whether the average cost per appliance is less or greater than 24*d.* If less the 1916 profit is the greater, if more the reverse. If the tendency that has been shown towards simplicity in the economy in prescribing is continued the 1916 Tariff will compare favourably with its predecessor.

Chesterfield.—A meeting of the Chesterfield Pharmacists' Association was held on November 29 at the Queen's Park Hotel. Mr. J. F. Houston in the chair. There were twelve members present and Mr. J. H. Toolis, Hon. Secretary. The meeting was called to consider the new National

Insurance contracts, which matter was discussed at great length. Much dissatisfaction was expressed at the inadequate rate of remuneration. The members present were very much in sympathy with the views of the Southend-on-Sea Pharmacists' Association on the subject, and the eight questions put forward by this Association were considered and replies given. It was decided to close Christmas Day, Boxing Day (Monday), and the Monday following in lieu of New Year's Day which falls on market day.

Glasgow.—Mr. J. H. Riddell presided at a meeting of the local Chemists' Association on November 25, when Mr. G. Shiach Kitchin read an interesting paper on the origin and work of the *Central Checking Bureau, Glasgow*. In the course of it he outlined the system adopted with prescriptions from the time of their arrival until they are ready to be returned. The box, parcel, or hamper is received and signed for by the porter. He then immediately opens the packet and enters in a book the number of bundles of prescriptions and the area from which they have come. These are then placed in the fire-proof room. From this they are taken later to the sorting department, where the sorter puts each chemist's bundle between two pieces of cardboard. On the outside of the upper board she affixes a label bearing name of I.C., chemist's name, address, and his official bureau number, together with the month. The same particulars are then immediately entered in a book. The prescriptions are then distributed among the sorters that they may be scrutinised for incorrect forms—B forms, forms belonging to other areas, those lacking chemists' stamps or doctors' signatures, soldiers' and sailors' dependants' forms, scraps of paper, domiciliary forms, temporary residents' forms—these are all eliminated and the number of proper regular forms is carefully counted and numbered automatically. The chief sorter then enters on an index-card all the particulars ascertained up to this stage. She next sends the index-card for the area to the typist, who makes out a statement for the Insurance Committee to enable them to make provisional payment to the chemists at once. If one or two men in an area hold back their prescriptions it can easily be seen how the provisional payment must be withheld until the clerk knows what are his complete liabilities for the month. While the typist is busy with the provisional statement, the prescriptions are handed on to the technical staff for pricing. As far as possible the rule followed here is for the same checkers to check the same areas month by month. They thus become familiar with the doctors' caligraphy and its varying degrees of illegibility and the peculiarities of the chemist, and this conduces very greatly to both speed and accuracy. By the time the pricing is finished the index-card is ready to receive another entry—namely, the signatures of the pricers. While the pricer is going over the prescriptions it is his or her duty to note any peculiarities or apparent transgressions of the local rules applicable to the area, and he makes a report on the same. The prescriptions are next conveyed to the room of the Superintendent (Mr. A. B. Gilmour), who examines them as to the pricing, decides any doubtful points, and writes any observations he considers it necessary to make. The prescriptions are then taken to the accounting-room, where two Burroughs adding and listing machines driven by motor power and operated by experts are ready to make out the chemists' accounts in triplicate and show the total forthwith. Two copies are sent to the Insurance Committee, one for the Committee and one for the chemist; the third is retained by the Bureau and filed for reference. Mr. Gilmour's observations are forwarded along with the accounts. The prescriptions are then handed to the clerical staff, who enter on the index-card the value of each chemist's prescriptions and the average price per form, which has been ascertained on a comptometer and checked by a second comptometer. The same routine is applied to stock orders, D forms and V forms, the number and value of each of these classes being shown. All these particulars are entered on the chemist's index-card and signed by the counter, pricer, and clerk. Each of these cards lasts for two years, and hence forms a very concise and useful record. These cards are all filed away in a cabinet and any single one can be found in an instant. Prescriptions are then again handled by the clerical staff, who first sort them into doctors in the alphabetical order of their names. An index-card is then filled up for each doctor under the particular month with the following particulars: (1) Number of forms, (2) total value of forms, (3) average value of form, (4) number of forms value over 1*s.*, (5) number on panel list, (6) cost per person on panel list, (7) frequency, (8) D forms, (9) value of D forms, (10) V forms, (11) value of V forms, (12) stock forms, (13) value of stock forms. This is signed by the sorter each month, and the card, like the chemist's, lasts for two years. There is another index-card for the doctors and

the chemists in each area, giving a summary of the total details gathered from the individual cards. The comparison between areas can thus be made instantly. Each doctor's prescriptions are met, sorted out into values, and a report prepared showing how many under each value were written during the month, figures also being shown on the same form for the doctor's stock orders, D prescriptions, and V prescriptions. There is also an abstract of summaries collated from the doctors' index-cards showing clearly the record of the doctors in any area for a whole year. This is for use in special circumstances, as, for example, for the purpose of making out a *prima facie* case of "extravagant prescribing," or for proving that in any particular period of the year there was an unusual amount of sickness, this probably showing a *prima facie* case for a grant from the Emergency Drug Fund on account of an epidemic. The prescriptions may now be returned to the various areas.

Gloucestershire.—A meeting of the Gloucestershire Pharmacists' Association was held at the Plough Hotel, Cheltenham, on November 25, Mr. W. H. Hill (Vice-President) in the chair. The Chairman stated that the Price-adjustment Committee, after a consideration of the question of the fixation of a minimum price-list, regretted that a unanimous agreement could not be arranged. The courses open are: (a) to agree upon a minimum price-list by those in sympathy with it; (b) to abandon the list of drugs and galenicals and publish a list only of current minimum prices of compressions, etc.; (c) to accept the schedule as a current guide of retail prices. Messrs. Miller, Dolman, and W. Palmer spoke strongly in favour of fixing minimum prices, but the middle course commended itself to the majority, and Messrs. Clark, Saxby, Turner, and Lloyd spoke in favour of publishing a list as a guide, and this course was finally adopted. Mr. Hawley (Winchcombe) proposed a scheme to embody a minimum for dispensing drugs, galenicals, and unprotected patents, which is to be further considered. It was agreed to continue Insurance contracts for the present, and members were asked to furnish summaries of accounts in order to prove the inadequacy of the provisional establishment-charge. Earlier closing at 8 P.M. on week-day and 10 P.M. on Saturday was favourably received for adoption in the new year.

Halifax.—A meeting of the Halifax Chemists' Association was held on November 30, Mr. H. K. Woodward (President) in the chair. A letter was read from the Liverpool Chemists' Association urging every Local Association to give its fullest support to the Proprietary Articles Trade Association, and the Secretary was instructed to approach such members who are not already subscribers to the P.A.T.A. Consideration was given to correspondence from the Southend Pharmacists' Association, but in view of the previous decision of this Association to accept the 1916 Tariff it was decided not to support the scheme. The replies received from Mr. Woolcock by individual members respecting the question of enlistment of pharmacists were read for the benefit of the meeting.

Liverpool.—The Chemists' Association has issued to each of the Chemists' Associations in the Kingdom a circular urging them to initiate as early as possible a recruiting campaign for the enrolment of all chemists in their respective areas as members of the P.A.T.A. The Council of the L.C.A. say that they cannot urge too strongly that this matter should be taken up at once, convinced as they are that good financial results would follow.

London (N.).—The first fireside social of the session of the North London Pharmacists' Association was held on November 25 at the residence of Mr. C. W. Brumwell, 5 Tavistock Street, Gordon Square, W.C. About twenty-five were present. The President (Mr. A. W. Bromley) gave a paper on *Tramps*, and Messrs. Skinner, Brumwell, and Jenkin joined in the discussion. After refreshments had been served, Mr. Brumwell presided over a musical programme. A vote of thanks was accorded to Mr. and Mrs. Brumwell.

London (N.E.).—Mr. G. B. Barnard presided at a meeting of the North-East London Pharmaceutical Association at Hackney Town Hall on November 25. A letter from the Square was read, impressing members to do their utmost to prove by figures taken from the balance-sheets of their own businesses that the 0.8*d.* establishment charge is inadequate and unprofitable. Those members who attended the mass meeting of chemists expressed their displeasure at the results of the meeting, and thought it should have been held earlier in the year, with a carefully prepared agenda. [By this is meant a meeting of London chemists held a week after the Conference of Local Associations on October 20 and 21.] An effort is being made to close still earlier in this district—viz., at 9 P.M. Pharmacists have been circularised and medical men communicated with.

London (S.E.).—Mr. A. J. Wing presided at a meeting of nearly fifty members of the South-East London Pharmacists' Association at Maitland House, 134 Greenwich Road, Greenwich, on November 25, when the malt-extract matter was again discussed, and on the motion of Mr. Fairweather, seconded by Mr. Sayers, it was resolved that—"It is urgently desirable, in view of the varying qualities of malt extract and cod-liver oil now on the market, that a suitable standard be established." Mr. Siddle moved, Mr. Harris seconded, and it was unanimously agreed:

"That the members of the S.E.L.P.A. protest because in the new agreements for N.H.I. dispensing no mention is made of fixed dates for payments, and urges that payment for 1916 accounts be made monthly in full not later than twenty-eight days after prescriptions have been sent in by individual pharmacists."

The Secretary was instructed to forward this resolution to each district Association in the London County, to the London Pharmaceutical Committee, and to the County Executive. A few other items of business were transacted.

Montgomeryshire.—At a meeting of the Montgomeryshire Pharmacists' Association Mr. J. Imsey Jones, Llanidloes, was elected President in succession to Mr. David Rees. It was resolved that in view of the national crisis chemists should continue pharmaceutical service under the National Insurance Act, but a strong protest was made as to the inadequate remuneration offered.

Newport (Mon.).—A meeting of the Newport Pharmacists' Association was held on November 25 at the Queen's Hotel, Mr. J. W. Phillips in the chair. Mr. P. F. Rowsell, Exeter, gave an address on the work of the Proprietary Articles Trade Association, which was much appreciated. After several questions had been asked and answered, a vote of thanks was passed to the speaker.

Northwich.—At a meeting held recently of the Northwich Division Pharmacists' Association the officers of the Association were re-elected for the ensuing year.

Society of Chemical Industry.—The Nottingham section discussed Dr. M. O. Forster's scheme for the establishment of a Chemical Intelligence Department of the Board of Trade. Professor Kipping agreed that such a bureau would be able to furnish problems of chemical research which would lead to practical results. Mr. F. Carr said that recently, in taking up the question of the manufacture of phthalic acid, it was found to be impossible to find out how many firms were making it already, and also what the requirements are. Dr. Caven said that full recognition of the importance of scientific chemistry must be secured from the outset.

Southend-on-Sea.—Mr. Sydney F. Body presided at a meeting of the Association of Pharmacists on Thursday, November 25, when Messrs. J. G. Atkinson and D. P. McDonald addressed the members on the work of the P.A.T.A. and C.D.A. In a discussion which followed, Messrs. Holloway and Heywood indulged in reminiscences, including references to personal contact with legal contingencies in which the C.D.A. had proved a most valuable and ready support. Messrs. Misselbrook and Carpenter also spoke, and Messrs. Atkinson and McDonald enrolled some new members.

Southport.—Mr. James Righton has recently concluded a three-years' presidency of the Pharmacists' Association, and his fellow-members met on Friday evening, November 26, Mr. Charles Haro (President of the Association) in the chair, to honour him. Mr. Righton has been forty-five years in business in Southport, and Mr. J. R. Cave (who could not be present) recalled in a letter Mr. Righton's first visit to him twenty-six years ago as Local Secretary of the Pharmaceutical Society, and the invaluable services which he had done for pharmacists in the district. The President and Vice-President (Mr. F. Battersby) also testified to Mr. Righton's abilities and worth; then Mrs. Hare, on behalf of the members, presented to Mr. Righton a silver rose-bowl, expressing the hope that he would have health and strength to enjoy the pleasure the sight of the gift would give him. The gift was inscribed: "Presented to James Righton, Esq., by the members of the Southport Pharmacists' Association, as a mark of their esteem and appreciation of his services as President in 1912-15." The President mentioned that Mr. Wall (Boots, Ltd.) was unable to be present, but desired to be associated with the other members in this event. Mr. Righton, in acknowledging, said if he had done anything for chemists and the craft generally, it had been done out of sympathy for chemists as a body, and he had been more than repaid by hearing the kind expressions that evening. He especially appreciated the gift, as one of his hobbies was that of rose-growing, and, if he might say so, for an amateur he had been fairly successful, though he could hardly help thinking that if he had to fill that large bowl

he would have to put more graft in the work than before, but it would give him an enhanced interest.—The ordinary meeting of the Association in regard to Insurance matters is reported in the Insurance Dispensing Section. At that meeting it was resolved to send a letter of congratulation to Councillor Henry Ball, Ph.C., on his election as Mayor of the borough.

Sussex (W.).—At the annual meeting of the West Sussex Pharmacists' Association the following officers were elected: Mr. Aston, Worthing, *Chairman*; Mr. Hilton, Bognor, *Treasurer*; Mr. Bastow, Chichester, *Secretary*, with Messrs. Frost, Allison, Brook, Marten, and Snook as *Committee*. A resolution was adopted protesting against the terms of the new Drug Tariff.

Thames Valley.—A meeting of the Thames Valley Pharmacists' Association was held at Kingston-on-Thames on December 1, the President (Mr. C. J. Bunker) in the chair. The Surrey Pharmaceutical Committee reported that Mr. A. Higgs, J.P. (Kingston), had resigned his seat on the Committee, and that Mr. W. M. Tims (Cobham) had been elected to fill his place. To fill a further vacancy Mr. F. Cherry (Walton) was nominated. Mr. Hugo Wolff, of the Middlesex County Association, was unable to address the meeting on the metropolitan organisation scheme. Mr. Bunker gave further particulars of its working, and the meeting decided to support the scheme. Reporting on National Insurance matters in Middlesex, Mr. Clement mentioned that when a prescription is presented ordering "two bottles" the ingredients of each bottle are to be priced out separately and a dispensing-fee allowed on each. In regard to Surrey matters, Mr. Higgs said an analysis of the year's prescriptions is being made. The number dispensed from January to March was 124,904; of these 1,175 had no signature of the doctor on them, and on 707 prescriptions the signature could not be read. During July the number of prescriptions sent in was 21,011; the cost before checking was 733*l.* 3*s.* 6*d.* and after checking 739*l.* 12*s.* 9*d.*; this averages out at 8*d.* per prescription. The cases of excessive prescribing were not very flagrant, but he instanced one case where 2½ lb. of ung. zinci had been ordered for one patient in nineteen days. The articles disallowed included jaconet, gamgee tissue, and throat-brushes. He impressed upon those present the importance of rendering accounts promptly as fifty chemists in Surrey had not sent in any accounts since July. A discussion then took place on the new Tariff. Mr. Higgs proposed the acceptance of the new Tariff under protest. A long discussion followed, and Mr. Higgs, in reply, stated that if chemists refused service the doctors would step into the breach and supply medicines. Another point not to be lost sight of was the attitude of the company chemists. Unless these would come into line it would be the means of giving them a handsome advertisement to the detriment of the rank-and-file of the trade. He advocated at this juncture to take a patriotic view of the situation, and during the coming session to organise their forces for some more drastic action in future. The resolution was ultimately carried by a large majority.

Trade-Marks.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for 1*s.*) and lodged with the Registrar of Trade-Marks, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C. The prescribed time is one month from the date of the Journal in which the application has appeared; but the period may be enlarged by the Registrar, if he thinks fit, and upon such terms as he may direct. Formal opposition should not be lodged until after notice has been given by letter to the applicant for registration, so as to afford him an opportunity of withdrawing his mark before the expense of preparing the notice of opposition is incurred. Failing such notice to the applicant, an opponent may not obtain an order for costs.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

(From the "Trade-marks Journal," November 17, 1915.)
Device with words "THE SENESCHAL" and picture of same; for corn-planes (11). By A. Seneschall, 12 Exeter Road, Brondesbury Road, N.W. 369,785.

"CAFLAC"; for food-substances (42). By the West Surrey Central Dairy Co., Ltd., 80 North Street, Guildford. 369,728.

Circular device with words "SNOW QUEEN"; for liquid detergents (47). By the Liverpool Borax Co., Ltd., Liverpool. 368,471.

"DERMOSA"; for toilet-preparations (48). By Arnold & Sons, 6 Giltspur Street, London, E.C. 369,506.

"FEDORA" and "POLLENDOWN"; for perfumery, etc. (48). By Warrick Bros., Ltd., 6 Nile Street, N. 369,839/40.

"BUTTERFLY," with picture of same; for polishes, etc. (50). By Blyth & Platt, Ltd., Solar Works, Watford. 368,860. (Associated.)

(From the "Trade-marks Journal," November 24, 1915.)

"ZEROLIT"; for chemicals for the treatment of liquids (1). By Water Softeners, Ltd., 91 and 93 Queen Victoria Street, E.C. 368,828.

"BAROLEUM"; for chemicals (1). By J. L. Palmer, 18 Ropemaker Street, E.C. 369,510.

"ANZAC"; for all goods (1). By The Liverpool Borax Co., Ltd., Liverpool. 369,845.

"TERROCEA"; for a throat, chest, and lung medicine (3). By A. Matthews, 2 Dixon Road, New Cross, S.E. 369,115.

Circle enclosing monogram of letters "S.P.A."; for medicines (3). By T. Friar, 68 Goldsmith Street, Nottingham. 369,768.

"TONASENE"; for a medicine (3). By F. H. Clarke, 17 Rockmount Road, Upper Norwood, S.E. 369,742.

"TINXOL"; for an adhesive for labelling tins and bottles (39). By W. H. Beers & Son, Imperial House, Kingsway, London. 369,616.

"MELCOM"; for milk-substitutes (42). By W. J. Melhuish, High wood House, Upper Parkstone. 368,507. (Associated.)

"BARLEM"; for pearl-barley lemonade (42). By Hugon & Co., Ltd., Openshaw, Manchester. 368,594.

"LIPTONIA"; for food substances (42). By Lipton, Ltd., 196 City Road, London. 369,607. (Associated.)

"CARAVAN" and picture of same; for goods (42). By Ayrton, Saunders & Co., Ltd., Liverpool. 369,477.

"BRIZ"; for goods (47) and for a polish (50). By Lever Bros., Ltd., Port Sunlight. 369,791/760.

"LYSOCREME"; for perfumery, etc. (48). By British Lysol, Ltd., 37 Station Street, Nottingham. 369,867.

"KIERA"; for a razor-sharpening preparation (50). By The Keen Kut Co., Cholderton, Chafon Road, Southampton. 368,196.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Sunday, December 5.

Pharmacist Volunteer Training Corps, Millbank School, Erasmus Street, Westminster, S.W. At 10 A.M. Company parade. At 12, lecture on First-Aid by Commander D. Leslie Burno.

Monday, December 6.

Society of Chemical Industry, London Section, Burlington House, Piccadilly, W., at 8 P.M. Ordinary meeting. Professor F. G. Donnan, F.R.S., on "The Use of Graphical Methods in the Solution of Problems in Technical Chemistry"; Mr. T. G. Cloud on "The Transport of Material in the Form of Dust"; Mr. M. S. Salamon on "Sampling and Analysis of Bees' Wax."

Tuesday, December 7.

Oldham Pharmaceutical Association, Café Monico, Union Street, at 3 P.M. Whist-drive.

Röntgen Society, Institution of Electrical Engineers, Victoria Embankment, London, W.C., at 8.15 P.M. Mr. L. A. Levy, M.A., F.I.C., on "Fluorescent and Intensifying Screens" and Mr. G. C. Blake on "Localisation."

Wednesday, December 8.

Manchester Pharmaceutical Association, Chess Club Room, 65 Market Street, at 3 P.M. Mr. L. Moreton Parry on "The Campaign of Pharmacy: Progress."

Manchester Chemists' Assistants' Association, Clarion Café, Market Street, at 8 P.M. Whist-drive.

Cardiff Pharmaceutical Association, Dorothy Café, at 2.30 P.M. Whist-drive. Profits to be devoted to the Red Cross Society.

Pharmacists' Volunteer Training Corps, 17 Bloomsbury Square, London, W.C., at 3.15 P.M. Lectures. The same programme is also taken on Thursday.

Birmingham Ueal Club, Rodway's Restaurant, Horsefair, at 2.45 P.M. Mr. Hugo Wolff on "How to Make Pharmacy a Profitable Profession."

Thursday, December 9.

Newcastle-upon-Tyne Pharmacists' Association, Church Institute, Hood Street, at 8 P.M. Mr. W. Pescod on "Impressions of Modern America."

West Ham Association of Pharmacists, Earlham Hall, Forest Gate, E., at 2.30 P.M. Discussion on the Proprietary Articles Trade Association.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., December 2, 6.30 p.m.

A FAIR amount of business has again been done in the chemical and drug markets, with a pronounced upward movement in staple products. Among the outstanding movements are advances in borax, boric acid, alum, saltpetre, green copperas, Chinese crude antimony, and bichromates of ammonium and sodium. Supplies of some of these products are becoming very small, and as the demand continues makers and dealers readily obtain more money. Tartaric acid remains firm and in good demand; citric is easier, and cream of tartar quiet but steady; arsenic is firmer. Acetylsalicylic acid, sodium and methyl salicylate, and vanillin are more or less dearer. Hexamine is on the easier side. Quinine is lower in second hands, opium quiet but firm, quicksilver steady. Among essential oils, cassia and anise are dearer, lemon is unaltered, and bergamot easier, clove being firm; cajuput has arrived freely; eucalyptus has been in demand, and West Indian distilled lime oil is lower. The fixed oils, such as castor, coconut, palm, cottonseed, colza, and soya, are again higher. The principal changes have been as under:

Higher	Firmer	Easier	Lower
Acetanilide	Acetyl-salicylic acid	Bergamot oil	Cardamoms
Alum	Aloes (Cape)	Citric acid	Lime oil
Ammon.	Ammonia	Hexamine	(W.I.)
bichrom.	sulphate	Honey	Linseed oil
Antimony	Anise oil, star	Kola	Quinine
(Ch. cr.)	Balsam peru	Sarsaparilla	(sec. hands)
Borax	Benzoin	(Native Jamaica)	
Boric acid	(Sumatra third)		
Camphor	Cassia oil		
(Jap. ref.)	Copaiba		
Coconut oil	Cottonseed		
Glucose	oil		
Ipecacuanha	Linseed oil		
Iron sulphate	Menthol		
Palm oil	Methyl		
Saltpetre	salicylate		
Senna (Tinn.)	Petroleum		
Soda bichrom.	Rape oil		
Soda chromate	Shellac		
Soya oil			
Starches			
Turpentine			
Vanillin			

Cablegram.

NEW YORK, December 2.—Business in drugs is fair. Cartagena ipecacuanha has advanced to \$2.65 per lb. Cascara sagrada is firmer at 6½c. per lb., and elecampane-root is 10c. dearer. Balsam tolu has been reduced to 38c., and for American saffron-flowers the higher price of 75c. is asked. Mexican sarsaparilla is dearer at 12½c. Opium, peppermint oil, and menthol are all unchanged.

ACETYSALICYLIC ACID.—Small sales have been made at from 47s. to 48s. per lb. by dealers, up to 50s. being quoted.

ALUM has been advanced by 30s. per ton, lump being quoted at 10½. 10s. and ground at 11½. per ton ex works.

AMMONIA SULPHATE.—London is firmer at 15½. 10s. per ton net, naked, at works, for 25-per-cent. ammonia for prompt delivery; Hull prompt, 24-per-cent., 16½. 7s. 6d.; Liverpool is 16½. 10s., and Leith is 16½. 10s. to 16½. 12s. 6d. per ton in bags f.o.b., less 3½ per cent.

ANISE OIL, STAR.—The rise in silver has affected both star-anise and cassia oils. "Red Ship" brand of the former has been sold at from 3s. 1d. to 3s. 2d. per lb. c.i.f. for December-January shipment, with 3s. 2½d. c.i.f. asked. The spot value is 3s. 5d.

ANTIMONY.—China crude (black sulphide) has advanced a further 5½. per ton to 90l.

ARSENIC is rather firmer, with best white powder offering at 33s. per cwt. on the spot.

BALSAM TOLU.—Privately from 1s. 7d. to 1s. 8d. is quoted.

BERGAMOT OIL.—New crop for December-January shipment is quoted at from 11s. 9d. to 12s. 6d. per lb. c.i.f., according to shipper.

BICHIROMATES.—Prices of bichromate of soda and bichromate of ammonia have been advanced by the makers by 2d. per lb. from November 25. The quotations are: Ammonium (78 to 79 per cent.), 10½d.; sodium (73 to 74 per cent.), 9d., 67 to 68 per cent. 8½d.; sodium chromate (59 to 60 per cent.), 8½d. per lb., less 5 per cent., delivered, without engagement. Bichromate of potash is not quoted by makers.

BORAX has been advanced by 2½. per ton to 25½. for crystals and 26½. for powdered. Boric acid is 3½. per ton dearer at 43½. for crystals and 45½. for powdered.

CAJUPUT OIL.—Arrivals aggregating 240 cases have taken place from Macassar; values are from 4s. per lb. upwards.

CAMPHOR (REFINED).—The spot value of Japanese slabs is unchanged at 1s. 8d., and ¼-oz. tablets are 1s. 10d.; to arrive a good business has been done in slabs, including December-January, January-February, and February-March shipment at 1s. 6½d. to 1s. 6¾d. c.i.f., and buyers at the latter price; also ¼-oz. tablets have been sold at 1s. 7d. to 1s. 7½d. to 1s. 7¾d. c.i.f. for mostly February-March shipment.

CANARY-SEED.—Spanish is quoted at from 100s. to 110s. for 464 lb. in Liverpool.

CASSIA OIL.—The recent sharp advance in cassia-bark and in silver has given a better tone to this article, which in a month has advanced practically 1s. per lb., or 25 per cent., but prices are now regarded as sufficiently high, in view of the limited consumption. The quotation for 80 to 85 per cent. is 4s. 6d. on the spot, and 3s. 6d. to 3s. 9d. c.i.f. has been paid for December-January shipment.

CASTOR OIL.—English for prompt delivery appears to be obtainable only in limited quantities from dealers who have favourable contracts. Makers appear to be unable to offer anything before January, quoting firsts in this position at 55½. and February at 53½. per ton, in barrels, f.o.b. Hull. French medicinal in barrels is quoted by dealers at 85s. In Liverpool good seconds Calcutta is quoted on the spot at 6½d. in limited quantity.

CASTORUM.—On behalf of the Hudson's Bay Co. about 900 lb. castorun will be offered at auction on Wednesday, December 15.

CELERY-SEED is offered at 145s. per cwt. spot in small lots.

CHLORAL HYDRATE.—Business has been done at 13s. 6d. per lb., duty paid.

CINNAMON OIL.—Ceylon leaf is quoted at 5d. per oz. on spot. At auction three cases Ceylon bark oil were limited at 1s. 6d. per oz.

CITRIC ACID extremely dull and on the easier side at 2s. 9d. to 2s. 10d.

CLOVE OIL.—English distillers' quotations are 5s. 6d. for small lots and 5s. 4d. for 12 W. qts.

COD-LIVER OIL.—Our Bergen correspondent writes on November 22 that no business of importance has been done in cod-liver oil, and the market is unchanged at about 335s. per barrel c.i.f. London. A private Bergen advice of November 25 reports more inquiry, with higher prices asked—viz., 345s. to 355s. per barrel f.r. Hull for finest non-freezing 1915 oil.

COPAIBA is firmer, with 2s. asked for Maracaibo.

COPPER SULPHATE remains strong, principally on account of the scarcity of sulphuric acid; 45½. per ton is quoted for the usual Liverpool brands.

CREAM OF TARTAR is steady and unchanged at 185s. for 93-per-cent. powder.

ERGOT.—Practically all the cheap lots having been cleared off the market, prices are now firmer at about 2s. 4d. for Russian and 2s. 5d. for Spanish on the spot.

EUCALYPTUS OIL.—There has lately been a better demand at various prices, and about 1s. 5d. per lb. would have to be paid for B.P. oil.

GAMBIER is firm at 39s. 6d. c.i.f. London for December-January shipment, and in Liverpool 40s. quay terms is

quoted for shipment; No. 1 *cubes* 49s. 6d. and No. 2 46s. 6d. to 47s. c.i.f.

GINGER.—Sierra Leone is firm at 29s. per cwt. on spot in Liverpool.

GLUCOSE has advanced 3d. per cwt. to 18s. 7½d. for the usual brands of liquid, while chips are at 19s. 6d. to 20s. 3d., as to brand. *Starches* are also dearer at 14s. 7½d. for pearl and 14s. 4½d. on the spot London.

HEXAMINE is on the easy side, with sellers at 5s. to 5s. 3d. per lb.

IRON SULPHATE is very scarce on account of lack of railway facilities, and the price has advanced to 80s. to 90s. per ton.

LEMON OIL remains substantially unchanged, new crop offering for December-January shipment at from 3s. 6d. to 3s. 10d. per lb. c.i.f. London, according to shipper; spot prices vary from 3s. 9d. to 4s.

A Sicilian advice, dated November 20, states that only a very few and quite unimportant transactions have been closed in prompt oil, and the market remains practically unchanged. As regards new crop sellers seem to be disinclined to make contracts at the present low prices, and consequently, as the pressing season has not yet commenced, the market has assumed a firmer aspect. We think, however, that as soon as the pressings begin, and prompt goods are actually on the market, there will be more sellers, and probably business will be possible at slightly lower prices.

LIME OIL.—There being little or no demand importers' limits of West Indian distilled have been reduced 6d. to 9d. per lb.

MENTHOL.—A fair spot business has been done in Kobayashi-Suzuki at 11s. 6d. per lb.; also January-February shipment at 11s. 6d. c.i.f. and February-March at 11s. 3d. c.i.f. and sellers.

METHYL SALICYLATE.—Sales have been made up to 16s. 6d. per lb. by dealers.

MILK-SUGAR.—In further reference to the report which was recently current on this market that the Dutch had placed an export-tax on milk-sugar, we are informed by the Hollandsche Melksuikerfabriek that up to now there never has been any question of such a tax.

MINT OIL.—Spot business has been done at 3s. 9d. for Kobayashi and/or Suzuki, and to arrive the sales include December-January at 3s. 6d. c.i.f.

MORPHINE.—Makers' prices remain unchanged at 13s. 6d. per oz. for hydrochloride powder.

MYLBANE OIL is very dear at 2s. 6d. per lb. for No. 1 yellow.

OILS (FIXED).—*Linsced* is lower at 32s. 9d. in pipes and 33s. 6d. in barrels on spot. *Cottonseed* is dearer at 35s. 3d. for crude in pipes on spot, refined in pipes being quoted 36s., and sweet refined in barrels at from 41s. to 43s. *Cocunut* is dearer at 50s. for Ceylon in pipes and 51s. in logs-heads; *Cochin* is also dearer at 52s. to 54s. on spot; London pressed is 1s. higher at 44s. *Rape* is 1s. dearer at 40s. for ordinary brown crude, naked, and at 43s. 3d. for British refined in barrels; Japan in cases is 38s. c.i.f. for October-November shipment. *Soya* is firmer at 32s. c.i.f. on passage for Manchurian in cases; Hull (spot) extracted is 32s. Lagos *Palm* on spot is 2s. higher at 40s., and in Liverpool the higher price of from 37s. to 37s. 3d. is quoted.

OPICUM.—Both Turkey and Persian remain firm and unchanged, the value of druggists' quality of the former being about 35s.

A Constantinople report, received *via* Germany, states that the Turkish crop this year was estimated at about 6,000 cases of satisfactory quality. The exportation, however, meets with considerable difficulty, and the prices vary considerably, depending on the possibility of exporting. First druggists' is quoted at from 200 to 235 (gold) piastres per oke (1 oke=1.233 lbs.). Soft shipping of 1915 crop has not yet arrived at Constantinople.

The following comparative table shows the value of opium exported from Persia during the years 1911-12 to 1913-14:

To	1911-12.	1912-13.	1913-14.
	£	£	£
British Empire ...	203,249	334,812	247,402
Turkey ...	25,505	126,747	104,290
China ...	124,877	62,836	20,691
Russia ...	46,908	62,695	62,742
Belgium ...	1,473	4,844	—
Netherlands ...	5,455	38,909	250,153
Other countries ...	1,636	3,964	440
Total ...	409,103	634,807	685,718

ORANGE OIL.—The tendency for Sicilian oil is firmer at 6s. 10½d. to 7s. per lb. c.i.f.

PEPPERMINT OIL.—Very fair arrivals of American tin oil are taking place, and an easier market is looked for; spot values are from 9s. to 9s. 3d., and 9s. to come forward.

PETROLEUM has advanced ½d. per gal., ordinary refined American being 10d. and water-white 11d. per gal.

PHENACETIN ranges in value from 59s. per lb. upwards for quite retail lots.

PHENAZONE.—The value is about 70s. per lb. if obtainable.

POTASH CHLORATE.—Spot in small lots of ordinary quality is obtainable at from 1s. 5½d. to 1s. 6d., the value of c.p. being 2s. 1d.

POTASHES are still very scarce, first Government brand Montreal offering in limited quantity at 145s. and first American at 120s.

QUASSIA-CHIPS are offered at 23½. per ton net on spot.

QUILLARIA is firm at 33½. per ton ex store Liverpool, which prices have been paid.

QUININE.—The position in second-hands still continues very weak, and several holders, who appear desirous of realising their commitments, would accept 3s. 6d. per oz. for the usual brands of Continental sulphate.

SALOL is quoted at from about 46s. to 47s. per lb.

SALTPETRE.—British refined has advanced 2s. per cwt. to 47s. and powdered to 49s. per cwt.

SHELLAC is firmer, with a fair business passing, comprising usual standard TN Orange on a basis of 75s. to 76s., good 77s., and fine orange 87s. 6d. to 90s.; sellers of AC free Garnet quote 74s. to 75s., and G.A.L. 72s. on spot; to arrive AC Garnet has been sold for January-March shipment at 74s. c.i.f. Futures are firmer, the sales including December at 75s. 6d. to 76s.

SODA NITRATE continues strong, ordinary to refined offering in Liverpool at 14s. 3d. to 15s. 3d. per cwt. respectively; on the spot 14s. 9d. to 15s. 9d. is quoted.

TARTARIC ACID.—There is still a good demand (especially for crystals), and the values are firm at from 2s. 6d. to 2s. 6½d. for December delivery.

VANILLIN.—Sales have been made from second-hands up to 40s. per lb., and the cheaper parcels from that source are being rapidly absorbed, some holders asking 45s. at the close.

London Drug-auctions.

Commercial Sale-rooms,
Mining Lane, E.C., December 2.

At the last auctions of the year a large quantity of drugs offered, but the proportion sold was small, with few changes in value. Cape aloes tended firmer, and for Curaçao, which are very scarce, extremely high prices are now asked. Annatto-seed is plentiful and neglected. Buchu is tending firmer owing to American orders. Balsam tolu is easy. Sumatra benzoin sells at very full rates for all qualities. Cardamoms were flat and generally easier. Reboiled dragon's-blood brought good prices considering the quality. Siam gamboge is very scarce and wanted. A large quantity of Jamaica honey offered, and importers being willing to shade prices, a fair quantity changed hands. East Indian ipocacuanha brought a substantial advance on previous auction rates. Kola is arriving freely and prices, if anything, tend easier. Myrrh sells at previous rates, and for rhubarb, the stocks of which are now accumulating, generally easier prices were accepted. Grey Jamaica and native Jamaica sarsaparilla were steady but rather slow. Tinnevely senna met with good competition at an advance of from 2d. to 3d. per lb., and occasionally more. Cochin split turmeric bulbs sold cheaply without reserve, and beeswax generally was flat. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Agar-agar	12	0	Camphor oil.....	4	4
Ajowan-seed.....	36	0	Cannabis indica ...	7	0
Alumen	21	0	Cantharides (Ch.) ..	22	0
Aloes—			Caraway-seed	50	0
Cape	71	38	Cardamoms and		
Curaçao ... (cs.)	24	0	seed	556	110
Ammoniacum	21	0	Cassara sagrada ...	11	4
Anise (Levant) ...	11	0	Chaetmoogra oil ...	5	0
Anise, star	48	0	Chinetta	10	0
Annatto-seed	122	0	Cinchona	4	0
Areca	67	0	Cinnamon bark oil ..	3	0
Argol (Cape).....	31	0	Cocaine cr. (cs.) ..	4	0
Balsam tolu	24	0	Colocynth pulp	1	0
Benzoin—			Croton-seed	15	0
Palembang	36	0	Cubeb	18	0
Siam	24	0	Cuttlefish-bone ...	41	0
Sumatra.....	236	43	Dill-seed	15	0
Buchu.....	12	0	Dragon's-blood.....	44	3
Calumba	239	0	Elecampane	13	6

	Offered	Sold		Offered	Sold
Elemi.....	10	6	Papain.....	4	0
Galangal.....	35	0	Rhubarb—		
Guaiacum.....	5	0	Chinese.....	152	40
Gum acacia.....	6	*6	Ch. Rhap.....	10	0
Gum sandarac.....	10	*10	Salep.....	1	0
Honey—			Sarsaparilla—		
Californian.....	136	136	Grey Jam.....	22	11
Cuban.....	46	13	Honduras.....	7	0
Curaçao.....	67	67	Lima.....	35	0
Hawaiian.....	200	0	Mexican.....	22	0
Haytian.....	184	44	Native Jam.....	57	7
Jamaican.....	506	161	Scablae.....	89	0
San Domingo.....	41	0	Scopola.....	3	0
Insect-flowers(Jap.)	1	0	Senega.....	26	0
Ipecacuanha—			Senna and pods—		
Cartagena.....	21	0	Alex.....	121	45
East Indian.....	30	30	Tinnevely.....	329	307
Matto Grosso.....	5	*1	Sticklae.....	19	0
Jalap.....	28	28	Tragacanth.....	53	35
Kamala.....	6	0	Turmeric.....	545	420
Kola.....	122	46	Valerian (Jap.).....	19	0
Lime oil.....	5	0	Wax (bees)—		
Liquorice-root.....	37	0	Abyssinian.....	476	456
Mustard-seed.....	3	3	Benguela.....	7	0
Myrrh.....	42	17	East African.....	294	0
Nux vomica.....	79	50	East Indian.....	266	*20
Olibanum.....	75	0	Jamaica.....	56	0
Orange-juice.....	2	0	Mozambique.....	247	0
Orange-peel.....	27	0	Portuguese.....	70	0
Orris (Mog.).....	51	0	West Indian.....	6	1

* Sold privately.

ALOES.—Cape sold at rather firmer prices, including fair bright hard firsts at from 32s. 6d. to 35s., good seconds 31s. 6d., and ordinary to dullish seconds 30s. 6d. to 31s. per cwt. Good hard bright firsts were firmly held at 34s., a bid of 33s. 6d. being refused. Curaçao aloes is scarce, 24 boxes being limited at 5 guineas per cwt. for medium livers, and for capcy 70s. was wanted.

ARECA.—The value of small to bold slightly wormy nuts is 30s., and partly wormy 25s. per cwt.

BENZONIN.—Sumatra was dearer, 20 cases of fair thirds of old fracture selling without reserve with competition at from 5l. 15s. to 6l. per cwt.; 21 cases of middling seconds, partly reddish and of old fracture, sold at from 6l. 10s. to 6l. 15s. (one lot 6l. 7s. 6d.), country cut going at 5l. 5s. to 5l. 10s. The best lots in sale consisted of good well-packed almondly seconds, with slight storax flavour, for which 8l. was wanted. Palenbang was limited at from 45s. to 65s. per cwt., as to quality. For Siam of small to bold free good flavoured almonds 25l. was wanted, 16l. 10s. for bean and pea size, and 9l. for small brown grains.

BUCHU was slow in auction. For three bales slightly yellowish and stalky round 5s. 3d. was wanted, the buyer intimating that he would take 5s. For five bales mostly bronzy oval leaves the limits were from 2s. 5d. to 2s. 9d., and three bales stalky and bronzy longs were held at 3s. 6d. per lb. Privately the market closes somewhat better than the auction prices owing to some American orders having been placed.

CAMPHOR OIL.—Two cases of good white Chinese sold at 52s. 6d. per cwt. subject, and for two cases of brownish a bid of 47s. 6d. is to be submitted to the owner.

CANNABIS INDICA.—The limit on small brownish Bombay tops is 7s. 6d. per lb.

CANTHARIDES.—Fair Chinese were limited at 5s., at which private sales have been made.

CARDAMOMS met with a poor demand at generally easier prices. Ceylon-Mysore, extra bold fine pale, sold at 6s. 1d.; bold pale, 5s.; bold long pale, 4s. 3d.; medium to bold, pale, 3s. 4d. to 3s. 6d.; bold dull, 2s. 7d. to 3s.; medium dull, 2s. to 2s. 4d.; small and medium, dull to pale, 1s. 6d. to 1s. 9d.; fine pale bold splits, 4s. 5d.; medium to bold splits, 2s. 8d.; small pale splits, 1s. 9d. to 1s. 10d.; ordinary to fair brown split and pickings, 1s. 5d. to 1s. 7d.; inferior shelly, 1s. Seeds, 1s. 9d. to 2s.

CASCARA SAGRADA.—Seven bags of thick mossy and quilly bark were limited at 55s., and four bags of sea-damaged went at from 35s. to 42s. 6d. per cwt.

CHAULMOOGRA OIL.—Five cases of paste of fair colour were offered without reserve, and elicited a single bid of 1s. per lb., which is to be submitted to the owner.

COCHINEAL from new import is offered at 2s. 1d. per lb. for genuine blacks.

CROTON-SEED.—A lot of 15 bags offered and were held at 55s. per cwt. for ordinary dullish East Indian.

DRAGON'S BLOOD.—Three cases of Singapore reboiled lump, part mixed, sold at 19l. per cwt., being firm; 10 bags

of bag-shaped lump of ordinary quality were limited at 6l. 12s. 6d., and for two cases dull saucers 8l. was wanted.

ELECAMPANE-ROOT.—A lot of 13 bales offered, with six sold at 10s. per cwt. subject for sea damaged, the sound being held at 62s.

ELEMIL.—Six cases of fair paste sold at the steady price of 55s. per cwt.

HONEY was in large supply, especially Jamaica, which hung fire somewhat at generally easier prices. Good pale set in tins and cases, 45s. 6d.; good pale set in barrels, 37s.; fair brown set, 32s. to 35s.; dark set and setting, 30s. to 31s.; ordinary dark to middling liquid, 27s. 6d. to 30s. Of Cuban, 46 casks offered and 13 sold at 34s. 6d. for nice pale set and 32s. for brown set; 67 packages Curaçao offered was sold at from 29s. to 30s. for palish brown hard set; 12 casks Hayti realised 28s. to 30s. for brown set; 200 cases Hawaii and 41 casks San Domingo were bought in; 136 cases pale set amber sugary Californian sold at from 31s. 6d. to 32s., and fermenting at 27s. 6d.; 32 barrels Hayti sold at 35s. to 35s. 6d. for fair pale granular set.

IPECACUANHA.—The feature of the sale was the offering of 30 bales of East Indian, which met with good competition at much higher rates than the previous auction, from 17s. 2d. (one bale) to 18s. per lb. being paid for good native-picked more or less greyish root; a bale of siftings sold at 16s. 3d. Of Matto Grosso six bales offered, and one had been sold privately, the remainder being retired at 24s. per lb.; 22s. was understood to be the limit, which price is said to have been paid privately. Nine bags of Cartagena were bought in at 16s., and for a further six the actual price did not transpire.

JALAP.—A parcel of 28 bags of small to medium, part slightly wormy root, testing 9.3 per cent. resin, sold at 9d. per lb.

KOLA-NUTS tend easier. At auction 23 bags of mouldy and part wormy African sold at from 2½d. to 3d. per lb. subject, and a bag of small sound African quarters went at 6½d. A pocket of fair St. Lucia sold at 4½d. and a bag of small Java at 3d. A bag of dull bold Ceylon halves sold at 4½d. per lb. subject.

MUSTARD-SEED.—Three bags of fair sold without reserve at 38s. per cwt.

MYRRH is steady, 17 bags of small reddish Somali character selling at 50s. per cwt.; fair Aden sorts are obtainable at 55s.

NUX VOMICA.—A lot of 79 pockets small Calcutta was offered, of which fifty sold at 18s. per cwt.

ORRIS-ROOT.—A parcel of 51 bags small leanish Morocco was firmly held at 40s., a bid of 37s. 6d. being refused for part.

RHUBARB.—A fair quantity was sold at rather easier prices, including 17 cases of Canton without reserve at from 1s. 11d. to 2s. per lb. for small round and trimming root to bold round with three-quarter fair pinky fracture. Under usual conditions four cases of round Canton pickings sold at 1s. 8d. to 1s. 9d., and a case of flat pickings at 1s. 8d. per lb., subject. Two cases of medium rough round horny High-dried sold at 8½d., and four cases ditto at 7½d. per lb., subject. The value of medium to bold round Shensi with three-quarter good pinky fracture is 5s., and medium to bold flat High-dried 1s. 4d.

SARSAPARILLA.—Grey Jamaica only partly sold, prices being unaltered at 1s. 8d. per lb. for fair and 1s. 7d. for part coarse and part mouldy. Native Jamaica is plentiful, and hung fire; seven bales sold, including 8d. to 9d. for inferior yellow to dull mixed red and partly sea- and water-damaged. Good red is obtainable at 1s. per lb.; 26 bales more or less mouldy and damp Lima-Jamaica were retired at 1s. 8d., and for 22 bales Mexican 9½d. was wanted.

SENNA.—Tinnevely met with a good demand at an advance of from 2d. to 3d. per lb. and occasionally more pods being unchanged. Common to ordinary small yellowish leaf sold at from 3½d. to 5½d., medium size greenish 5½d. to 6½d., and good small greenish 6½d. to 7d., up to 7½d. for bold. Pods went at from 3½d. to 4d. per lb. Alexandrian continues scarce; a bale of good pale pods sold at 2s. 3d., and for three bales of dark ditto 2s. was paid. Whole leaf was held at 2s., a bid of 1s. 9d. being refused, and 29 bales of ordinary leaf were bought in at 1s. 6d. Twelve bales siftings realised 7d.

TURMERIC.—A lot of 181 bags Cochín split bulbs sold with all faults, with good competition, at from 9s. to 13s. 3d. per cwt. Privately good Madras finger is scarce.

WAX, BEES'.—Quiet. Jamaica was limited at from 7l. 15s. to 8l. per cwt., as to quality. A string of 456 packages Abyssinian sold at 7l. per cwt. for fair block. Twenty bags unbleached Calcutta had been sold privately, and for bleached from 8l. 17s. 6d. to 9l. was asked, as to colour. Good Mozambique pipe is obtainable at 7l. 2s. 6d.

Arrivals of Chemicals, Drugs, etc.

During the period November 17 to 30, inclusive, the following produce has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.

Acetic acid (R'dam) pkgs. 73, blus. 135, cks. 21, (N.Y.) brls. 268
Acetone (Philadel.) dms. 40, (N.Y.) dms. 28
Agar-agar (Japan) bls. 99
Albumen (Shanghai) cs. 330, (M'seilles) cs. 15
Alcohol, wood (Philadel.) dms. 12
Aloes (Cape) cs. 45, (N.Y.) cs. 50
Ammon. phosph. (Philadel.) brls. 103, (Boston) 105
"Ammonia" (Go'burg) cs. 100, (Skien) pkgs. 1,413
Anise (M'seilles) pkgs. 24
Anise oil (H.-Kong) cs. 165
Annatto-seed (W.I.) 51
Antimony ore (S'ghai) bgs. 220, (Australia) 412
Antipholistin (N.Y.) cs. 350
Arachis oil (France) cs. 21, cks. 12, (R'dam) cks. 440
Argol (B'lona) cks. 54, (C. Town) 68, (Messina) 250
Arsenic (Oporto) cks. 100, (Paris) 9
Balsams (N. York) cs. 15
Barium nitrate (Norfolk, Va.) cks. 33
Barytes (N.Y.) bgs. 500, brls. 160, (B'lona) bgs. 200, (Tarragona) 400
Belladonna-root (Japan) bls. 12
Boric acid (N.Y.) pkgs. 410
Bromides (N.Y.) pkgs. 24, (Boston) cs. 100
Cajuput oil (Macassar) cs. 240
Calcium carbide (Rouen) 200, (Go'burg) 1,800
Calcium citrate (Demerara) pkgs. 10
Calcium tartrate (Piræus) bgs. 400
Calumba (Mozambique) 21
Camphor oil (Moji) cs. 25
Camphor, ref. (Kobe) cs. 85
Cananga oil (Java) cs. 18
Cantharides (H.-Kong) cs. 30
Capsicums (Bombay) bds. 721
Caraway oil (R'dam) cs. 12
Caraway-seed (B'bay) 15, (Holland) 550
Cardamoms (Tuticorin) cs. 68, (Ceylon) 279
Casein (B'deaux) bgs. 357, (Paris) 278
Cassia (B'bay) cs. 30, (H.-Kong, etc.) cs. 1,150, pkgs. 4,400, (Batavia) 250
Cassia-buds (H.-Kong) cs. 100, (Padang) cs. 50
Cassia oil (H.-Kong) cs. 20
Castor oil (Cocanada) cks. 248, (N. York) brls. 100
Cellulose acetate (Treport) cks. 41
Chamomiles (Spain) bgs. 74
Chemical prod. (Go'burg) cs. 20, (Piræus) brls. 39, (Boulogne) cs. 45, (N.Y.) pkgs. 30, (Havre) pkgs. 26, (Osaka) cs. 10, (Boulogne) cs. 32, pkgs. 132, (Paris) pkgs. 22
"Chemical prod., medicines, perf., etc." (N.Y.) pkgs. 877
Chillies (Zanzibar) bls. 48, (Mombasa) 32
Cinchona (Amst.) bls. 30, (Tuticorin) 71
Cinchonine (Amst.) cs. 35
Cinnamon (Ceylon) bls. 1,132
Citric acid (M'seilles) cs. 30
Citronella oil (Java) dms. 14, (Galle) dms. 31
Cloves (B'bay) bds. 1,007, (Zanzibar) bls. 3,000
Coca-leaves (Java) bls. 8
Cocaine (L. Palmas) 53
Cocoa-butter (Amst.) 50
Cocunut oil (Cochin) pns. 7, bds. 64, pkgs. 131, pns. 398, (Galle) cks. 373, (Galle) cks. 332, (Sydney) cks. 1,498, (Colombo) pps. 72, pkgs. 132
Cod oil (Kobe) cs. 100
Cream of tartar (B'deaux) cks. 103, (Piræus) brls. 248, (N. York) cks. 18, kgs. 10
Creosote (Paris) cbs. 17
Cuttle-fish bone (B'bay) bds. 30
Dextrin (Amst.) 200
Divi-divi (India) 712
Drugs (Philadel.) cs. 12, (France) pkgs. 22, (N.Y.) cs. 165, (Melbourne) dms. 26
Dyes (Alexandria) brls. 1,993
Eln bark (Philadel.) bls. 14
Epsom salt (Australia) bgs. 200
Ergot (B'lona) bgs. 14
Essential oils (N.Y.) cs. 115, (Amst.) cs. 6, cbs. 3, (Messina) pkgs. 60, (M'seilles) cs. 19, (H.-Kong) c. 40, (Padang) cs. 32
Eucalyptus oil (Australia) cs. 73, dms. 30
Farina (Amst.) 30
Fennel-seed (M'seilles) 25
Formaldehyde (N.Y.) brls. 150
Fusel oil (Archangel) cks. 24
Galangal (Batavia) 50
Galls (Shanghai) cs. 70
Gelatin (Paris) bls. 48
Gentian (Spain) bgs. 112
Ginger (Jamaica) 9
Glucose (N.Y.) brls. 988, (Philadel.) 260
Glyco-thymoline (N.Y.) bxs. 208
Gum acacia (Suez) bgs. 18, (P. Sudan) 75
Gum animi (Zanzibar) 14
Gum copal (Macassar) bkts. 551, cs. 173, (H.-Kong) 40, (S'pore) pkgs. 7,031, (Lisbon) 148
Gum damar (S'pore) cs. 50, pkgs. 379, (Padang) cs. 118, (Sabang) 42
Gums, undescribed (B'bay) bgs. 50, (B'deaux) pkgs. 63, (Adehaide) bgs. 382, (Persian Gulf) pkgs. 140, cs. 62, (M'seilles) bgs. 420
Hexamine (N.Y.) dms. 14
Honey (Jamaica) cks. 260
Hydrog. perox. (N.Y.) cs. 350
Indigo, artif. (Alexandria) brls. 700
Indigo (Java) cs. 42, (Madras) cs. 745
Ipecacuanha (Paris) bgs. 54
Kola (N.Y.) 25, (W.I.) 231
Lactic acid (Philadel.) brls. 66
Lemongrass oil (Cochin) pkgs. 38
Lime-juice (Trinidad) pkgs. 68, (Dominica) pkgs. 973, (Jamaica) pns. 73, cks. 10
Lime oil (Dominica) pkgs. 60
Linseed (Archangel) tons 417, (C'utta) bgs. 37,511
Linsed oil (R'dam) cks. 238
Liquorice-juice (M'seilles) cs. 143, (Naples) 151
Liquorice-root (Spain) bls. 102, pkgs. 248
Listerine (N.Y.) cs. 450
Lithopone (Holland) 190
Magnes. carb. (Amst.) bgs. 160
Magnesite (Holland) 150, (Madras) 632
Maize starch (Amst.) cs. 1,000
Medicines (Boston) pks. 1,523
Menthol (Havre) cs. 10
Milk-powder (R'dam) cs. 160, (N.Y.) cs. 224
Milk-sugar (Amst.) cs. 100
Mint oil (Japan) cs. 100
Nut oil (R'dam) cks. 400
Olive oil (Piræus) brls. 20, (Genoa) cks. 25, (Malaga) brls. 10, (M'seilles) cks. 23
Opium (Persian Gulf) cs. 100
Orange oil (Jamaica) cs. 63
Oxalates (Norway) pkgs. 110
Oxalic acid (Norway) cks. 20
Palm-kernels (Lagos, etc.) bgs. 26,190, bkts. 88, tons 1,039
Papain (Ceylon) cs. 4

Pepper, black (Java) bgs. 14,579, white (Java) 491, (S'pore) bgs. 7,198, (Penang) 1,273
Peppermint oil (N.Y.) cs. 128, (Boston) cs. 19
Peptone (N.Y.) pkgs. 17
Perfumery (France) pkgs. 153, cs. 21, (Amst.) dm. 1, cs. 15
Pimento (Jamaica) bgs. 8,405, (N.Y.) 250
Potash carb. (Philadel.) pkgs. 26, (N.Y.) cks. 8
Potash chlor. (Genoa) brls. 260
Potash iodid. (Japan) cs. 45
Potash salts (Castro Urdiales) bgs. 350
Potashes (M'treal) cks. 7, (N.Y.) cks. 7
Quinine (Amst.) cs. 53, (Batavia) cs. 90
Rape-seed (Karachi) bgs. 4,172
Rape-seed oil (Japan) cs. 7,520
Rhubarb (S'ghai) cs. 44
Roots, barks, etc. (N.Y.) bls. 88; leaves (M'seilles) bls. 214; roots (M'seilles) bls. 88, (B'deaux) bls. 36
Rosin (B'deaux) cks. 715
Salicylic acid (N.Y.) pkgs. 13, brls. 9
Saltpetre (Calcutta) bgs. 3,216
Sandal wood (Calicut) bds. 108
Sarsaparilla (Jamaica) bls. 41
Sassafras-bark (N. News) bgs. 9
Seedlac (C'utta) 50
Senna (Tuticorin) bls. 501, (Colombo) 77, (P. Sudan) 15
Shellac (C'utta, etc.) cs. 1,867, bgs. 100; button 103
Soda hyposulp. (Philadel.) pkgs. 465, brls. 160, (N.Y.) brls. 599, kgs. 110
Soda pruss. (Rouen) cks. 3
Soya-bean oil (Japan) cs. 21,000, (Shanghai) pkgs. 474
Tamarinds (Barb.) pkgs. 52, (Calcutta) cks. 300
Tannic acid (N.Y.) brls. 10
Tartar (Messina) cks. 15, (M'seilles) cks. 35
Tartaric acid (M'seilles) cks. 40
Thorium nitrate (Philadel.) cs. 110
Turpentine (B'deaux) cks. 250, (Oporto) brls. 60
Urea (Go'burg) cs. 27
Vateria indica (Calicut) bls. 16
Wax, bees' (C'utta) cs. 150, (Amst.) 4, (P. Sudan) pkgs. 771, (Alexandria) 96, (Cocanada) 43, (Madras) 14, (M'seilles) cs. 32, bgs. 285, pkgs. 630, (S'ghai) 45, (Jamaica) 10, (Delagoa Bay) 206, (Beira) 75, (Mozambique) 138, (P. Sudan) 320, (Lisbon) 22
Wine-lees (Piræus) 250
Wood oil (S'ghai) cks. 58, (Sabang) 30
Zinc oxide (R'dam) 1,310, (N.Y.) 2,200

To Liverpool.

Acetic acid (N.Y.) brls. 403
Albumen (N.Y.) cs. 50, (S'ghai) 67
Alcohol, wood (Norfolk, Va.), dms. 154
Ammonia anhyd. (N.Y.) cyl. 280
Argol (Oporto) cks. 20
Barytes (B'lona) bgs. 600
Boric acid (Leghorn) brls. 58
Calcium acetate (Boston) bgs. 2,645
Calcium chlor. (N.Y.) dms. 50
Canary-seed (Cadiz) 420
Castor oil (C'utta) cs. 100
Chemical prod. (N.Y.) pkgs. 121, cs. 8, (M'treal) cs. 24
Cinchona (Colon) pkgs. 118
Cloves (Zanzibar) cs. 16
Cochineal (L. Palmas) 37
Cocunut oil (Batavia) cs. 1,000, (Colombo) 373
Cream of tartar (B'lona) brls. 110, (Tarragona) brls. 9, (B'deaux) cks. 17
To Bristol.—Calcium carbide (Go'burg) dms. 1,800; cream of tartar (B'deaux) cks. 36; glucose (N.Y.) 540; potashes (M'treal) brls. 30; saffron (Valencia) cs. 1. To Ellesmere Port.—Soda nitrate (Chile) bgs. 30,328. To Folkestone.—Chemical prod. (Dieppe) pkgs.

Divi-divi (Caracas) bgs. 5,403
Drugs (N.Y.) pkgs. 105, (Havre) pkgs. 58, cs. 163, (Boston) cs. 156
Gum acacia (A'dria) bgs. 54, (P. Sudan) bls. 798
Gum damar (Batavia) cs. 50
Gums, undescribed (B'deaux) bgs. 50
Honey (Calif.) cs. 400
Indigo, syn. (A'dria) brls. 675, dms. 309
Iodine (Chile) kgs. 297, (Colon) brls. 119, pkgs. 482
Ipecacuanha (Colon) 35
Kola (W.C. Africa) 15
Lactic acid (Boston) brls. 68
Linsed (R. Plate) 2,823
Liquorice-juice (Catania) cs. 10, (N.Y.) cs. 120
Magnesite, c'de. (M'treal) bgs. 238
Medicines (N.Y.) bxs. 179
Mercury (B'lona) 20
Olive oil (Leghorn) brls. 33, (Naples) brls. 58, (Palermo) brls. 30, (Malaga) brls. 124, (B'deaux) cs. 216
Orchella-weed (Oporto) 116, (Colon) 150, (B'bay) 55
Palm-kernels (Lisbon, etc.) 1,086, (Havre) bgs. 138, (W.C. Africa) bgs. 15,317, tons 1,320
Palm oil (W.C. Africa) cks. 1,553
Perfumery (Havre) cs. 137, (Baltimore) cs. 100, (B'deaux) cs. 7, (Charente) cs. 19
Potash, undescribed (N.Y.) cks. 8
Quebracho ext. (B. Ayres) bgs. 64,047, brls. 615
Rape-seed oil (Hankow) cks. 600
Saffron (Valencia) cs. 5
Saltpetre (C'utta) bgs. 559
Senna (P. Sudan) bls. 8
Soda hyposulph. (N.Y.) brls. 60
Soda phosphate (N.Y.) bgs. 80
Soda sulphate (N.Y.) brls. 57, (Boston) brls. 268
Sulphur (Catania) pkgs. 4,360
Tartaric acid (Naples) brls. 8
Turpentine (U.S.A.) brls. 1,950
Wax, bees' (Alexandria) bgs. 15
Wax, carnauba (Pernambuco) bgs. 1,579
Wax, vegetable (N.Y.) bgs. 176
Zinc oxide (N.Y.) 1,820, (R'dam) 100

To Manchester.

Acetic acid (N.Y.) brls. 391, cbs. 25, (Philadel.) brls. 66
Alumina sulph. (N.Y.) bgs. 250
Arachis oil (R'dam) cks. 120
Barytes (Genoa) bgs. 100
Calcium carbide (Philadel.) dms. 2,625, (Drammen) dms. 525
Calcium silicate (Rouen) cks. 65
Carbon black (U.S.A.) pkgs. 560
Cream of tartar (M'seilles) cks. 168
Farina (R'dam) bgs. 9,375
Glucose (Baltimore) brls. 1,120
Herbs (Genoa) bls. 42
Indigo, syn. (Alexandria) brls. 700
Leaves, dried (M'seilles) bls. 34
Magnesite (Drammen) bgs. 508
Olive oil (Leghorn) bxs. 85, (M'seilles) cs. 69
Phosphorus (M'treal) cs. 275
Potash (M'treal) brls. 5
Salicylic acid (N.Y.) brls. 7
Soda caustic (Philadel.) dms. 635
Soda hypsulph. (N.Y.) brls. 180
Soda nitrate (Sweden) cks. 259
Soda phosphate (N.Y.) brls. 193
Soda pruss. (M'seilles) cks. 15
Soda sulphide (Philadel.) dms. 51
Tartar emetic (N.Y.) cks. 9
Tartaric acid (Naples) brls. 5, (Genoa) brls. 42
Zinc oxide (Holland) 125

14; drugs (France) pkgs. 25; perfumery (France) pkgs. 43. *To Goole*.—Farina (R'dam) bgs. 775; perfumed spirits (France) cs. 27. *To Grimsby*.—Chemicals (Dieppe) brls. 58; dyes (Dieppe) cks. 746. *To Hull*.—Acetic acid (N.Y.) brls. 107, (R'dam) blns. 50; barytes (N.Y.) 470; bleaching-powder (U.S.A.) cks. 86; boric acid (N.Y.) brls. 250; calcium carbide (Christiania, etc.) 1,565; calcium chlor. (N.Y.) dms. 140; chlorine (N.Y.) crts. 16; castor-seed (B'bay) 7,661; cottonseed (Alexandria) tons 15,090; essential oils (Amst.) cs. 20, chys. 3; formic acid (R'dam) blns. 168, cks. 8; glycerin (Amst.) dms. 405; gum copal (W.C. Africa) bgs. 9,695, pkgs. 6,448; hexamine (N.Y.) cs. 20; lime-juice (N.Y.) hds. 63; linseed (Rosario) bgs. 74,473, (B'bay, etc.) 2,703, (B. Ayres) bgs. 86,354; lycopodium (Archangel) bgs. 40; palm-kernels (W.C. Africa) pkgs. 2,142, bgs. 15,213; palm oil (W.C. Africa) cks. 428; phosphates (A'dria) tons 500; potash, caustic (N.Y.) dms. 32; rape-seed (Karachi) pkgs. 7,078; turpentine (Archangel) brls. 100; wax, bees' (Algiers) pkgs. 63; zinc oxide (N.Y.) brls. 550. *To Southampton*.—Casein (Cherbourg) bgs. 267; gelatin (Honfleur) pkgs. 28; thorium nitrate (Cherbourg) cs. 20.

Heavy Chemicals.

Manchester, November 30.

Heavy chemicals continue on the up-grade, but supplies do not come up by any means to the demand, and premiums are freely paid to ensure anything like early delivery. Very little new business is coming forward. White caustic soda is active at full rates. Bleaching-powder is nominal. Bicarbonate of soda is quoted 5*l.* 2*s.* 6*d.* per ton, on rails, at works. Ammonia alkali (58-per-cent.) is 2*l.* 17*s.* 6*d.* to 3*l.* 10*s.* per ton, on rails, bags. Although there was little change in raw copper to-day, the sulphate is again higher, making 3*l.* on the week at 45*l.* 10*s.* to 45*l.* 15*s.* per ton, Manchester. Permanganate of potash is quiet, and, although asking prices are higher, they rather favour buyers. Soda and potash compounds are sparingly offered. Lead-products are scarce, and white acetate is around 65*l.* per ton, Manchester, where obtainable. Cream of tartar and oxalic acid are quiet, especially citric, which is rather lower. Hyposulphite of soda is 10*s.* lower on the week. In coal-tar products toluol favours buyers. Sulphate of ammonia remains scarce for all deliveries, and prices again register an advance: quotation is 15*l.* 17*s.* 6*d.* to 16*l.* per ton, on rails, Manchester.

Spanish Mercury.

The U.S. Consul at Madrid, under date of October 7, states that "the Spanish Government this day announces that the price of mercury sold by the lessees of the mines at Almaden shall be 385 pesetas per flask of 34,507 kilos. The Spanish Government is the owner of this property, and the price fixed as above relates to transactions between the Government and the lessees. The figure is about \$1 per avoirdupois pound."

Jamaica Logwood.

Several of the provincial Chambers of Commerce are urging the British Government to take steps to control the export of logwood from Jamaica, where it is controlled by a syndicate of firms whose prices have advanced 300 per cent. The supply in this country is quite unequal to the demand, but logwood is being steadily exported from the West Indies to the United States, while the home markets are reduced to starvation-point; so much so that there is the prospect of a crisis early next year. Action on the part of the Board of Trade is quite anticipated, and they are fully cognisant of the position.

AMERICAN DRUG-MARKET.—Mr. Chas. L. Huisking, in his New York drug-report of November 18, writes that the chemical-market has suffered a serious relapse during the past week. This has principally been brought about by the break in price on articles in which speculators have recently been most active and the falling-off in urgent consumers and export demand. Goods have been offered from all sections of the country in small and large quantities, and as was to be expected, the throwing on to the market of such has caused a considerable drop in price. Whether this is to be a temporary relapse remains to be seen, but it proves that unless some actual consuming demand prevails to back up the speculators in their operations inflated or exorbitant prices cannot hold. Quinine, for instance, is offered freely at the present time at 1.45 to 1.50 per oz., and there are no buyers. Some holders of high-priced goods attempted earlier in the week to stem the tide by buying odd lots here and there, but their efforts were not successful. This article is, however, being watched with a great deal of interest, as stocks are not over plentiful, and should further buying movement on the part of actual consumers be started we would most likely see a recurrence of former prices. If the demand does not come back, however, the stocks spread throughout the country are sufficient to drive the price considerably below its present level.



Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

Sir Edward Evans Explains.

SIR.—I notice in your issue of November 27 (p. 38) I am reported as attending the deputation that waited upon Mr. Roberts as representing the wholesale trade. I did not attend this deputation in that capacity, but rather from my long experience of the trade (now about fifty years) that I could state that it was in the interests of the community at large that those dispensing, dealing in, or selling drugs should be qualified to do so, and therefore it was essential in the interests of the community that the trade should be "starred."

Liverpool, November 29.

Yours faithfully,
EWD. EVANS.

Insurance Dispensing.

Mr. George Crocker (Camberwell) says the time was never so ripe as the present to get fair remuneration for our labour. Over two thousand doctors are engaged in military service and a large number of chemists. The Insurance Committee could not get their dispensing done so cheaply any other way. In fighting this question of price we should not be fighting against the interest of our country, but simply fighting against the parties who are extravagantly paid for their services and economising entirely through the victims of the Insurance Act. It is beyond Mr. Crocker's understanding how the London Pharmaceutical Committee allowed themselves to be made a catspaw by the Insurance Committee, to surcharge the doctors, and not to foresee that it would recoil on the chemists in the manner which it has done.

Mr. Sydney F. Body (Southend-on-Sea) writes expressing sincere appreciation of the many encouraging and helpful communications which he has received since his letters and the report of the Southend chemists' meeting were published in the *C. & D.* Although the immediate result of his appeal has proved abortive, Mr. Body has faith in the secured evidence that chemists are awakening and putting off the old apathy and self-distrust which has hitherto proved their undoing. "Armed with the will and moral courage to stand unitedly within an all-embracing Federation, no injustice, anomaly, or inadequacy in any sphere of pharmaceutical interest can withstand," he concludes. "its wholesome and cleansing influence, and we shall arise from our despondency to discover a better respect for ourselves and our brethren, which shall sow its counterpart in public opinion and reap for pharmacists adequate financial recognition in due course."

Mr. Edgar Jones (Brighton) writes: "The eleventh-hour crusade originated at Southend is most deplorable. Whatever success it may or may not achieve, it will have fostered the spirit of rebellion that was naturally bound to arise in those areas which have hitherto been paid in full, but are now faced with the possibility of a payment on less remunerative lines. The right frame of mind for these areas to adopt should be one of thankfulness that discounting has been so tardy in finding them out, and they should register a firm resolve to give the strongest possible support to the task of preparing evidence to get the 0.8*l.* establishment-fee raised, whereby all panel chemists will benefit. If we refuse the new Tariff, what alternative can we offer the Commissioners? The old

Tariff is no longer welcome; its principles are rotten and its application is unfair; the new one is, at any rate, just as between chemist and chemist, and between area and area. The amount of profit to the chemist under the 1915 Tariff depends entirely on the habits of the neighbouring doctors: an expensive doctor in a discounted area results in a double loss to the chemists doing the bulk of his work. In Brighton twenty prescriptions were sent by each of ten chemists for pricing under the old and the new Tariffs, and it was found that the ratio of gross profit, after deducting 55 per cent. discount (which obtains in the district), varied from 10 per cent. to 45 per cent. One chemist was actually working at a loss, after reckoning wages and other charges, and obviously that is unfair." Mr. Jones adds that Mr. Body's questions were unfair, and he criticises them *seriatim*, concluding: "Let the solidarity of chemists continue for another year, and then, if we do fail in our attempt to raise the establishment-fee, let us organise a strike under the legitimate auspices of the Executive Committee."

Tariff Prices, etc.

SIR,—When I explained to the Herefordshire Insurance Committee the time wasted in Insurance dispensing, the great amount of trouble and detail the chemist has to go through to earn a "tapenny-ha'penny" fee, I was confronted with the fable issued by the Local Executive Committee that the chemist earns 2s. per hour, but I had little difficulty in proving that this does not necessarily mean 20s. per day or 355s. per annum for services, but that he really gets a mere fraction of these sums, and it does not represent a living wage, regular employment, or sufficient for establishment expenses. The condensed report in the *C. & D.* misrepresents my words and argument by saying that each prescription takes fifteen minutes. Probably if we consider the taking and delivery of the order, the measuring and weighing of ingredients, the stockkeeping, the pricing of each article in infinitesimal quantities at wholesale price, the interruption of other business, and the final collection of the money, more than a quarter of an hour may be wasted on the average prescription. Anyway, I can safely say that no other tradesman or artisan would deal with such piffle for so paltry a sum. The remarks made by "Xrayser" are just what I should expect from my experience of the advice and opinions which he gave in 1912, and which so far have borne such a crop of rare and refreshing fruit for the tired panel chemist. "Xrayser" and several of the members of the Local Executive Committee who seemed more anxious to help the Chancellor out of a difficulty than to put money into the chemists' purse, spoke of "the status," "the principle," "the dignity of the profession," "the dispensing by qualified persons and pharmacists only," and prophesied an era of prosperity for the chemist when recognised by the State. At that time I endeavoured to prove that the average chemist cannot estimate his prime costs or assess his real value, and said that by the contract "the chemists had been taken in and done for"; that the terms were "a delusion and a snare" to force the chemist to take it or leave it, and that he dare not do the latter. I suggested that the Insurance Act might be better named "The Golden Fleece," and I hope it is now generally admitted by those who have had three years' experience of Insurance dispensing that the doctors have shorn the chemists of all chance of getting better terms and collared the floating sixpence. However willing the Local Insurance Committee may be to grant fair remuneration, they cannot do so, because there is no money in the panelled box, nor is there likely to be; most of it is swallowed up in administrative expenses, and the people are not getting the medical service they were promised for their weekly subscriptions. The doctors are prospering on "per capita" as they never did before, while the chemists are likely to do still worse on the new Tariff "per prescription." But no matter: the loyal chemists will do "their bit" for the benefit of the nation, while they who have obtained Government posts, honours, and emoluments enjoy themselves dictating terms and asking the chemists to give it another six months' trial, the acceptance of which will prove to the public mind that they are satisfied.

Hereford.

Yours faithfully,
J. J. JACKSON.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Erratum.

For "Harc's" in Mr. Kirkby's letter, *C. & D.*, November 27, p. 62, read "Slare's."

Compliments of the Season.

"I have been a subscriber to the *C. & D.* for forty years, and have always got value for my money out of it."—(51/4).

"Have enclosed my subscription for your admirable journal, which I must say has proved exceedingly useful to me in the past. Wishing you every success and prosperity."—(95/13).

"Enclosed please find cheque, my subscription for the indispensable *C. & D.* The tips I have had and acted upon through it have brought lots of grist to my little mill. Wishing you all the success you deserve."—(89/3).

"I have pleasure in enclosing herewith renewal of subscription. Your excellent journal is a necessity in every well-organised pharmacy. I more than paid my last year's subscription through advertisements in the Supplement during the year."—(88/32).

Labelling Tins.

"'Sinapis' (N.Z.) (44/42), *C. & D.*, November 27, suggests tr. benzoin. co., but this is much too expensive to use extensively for helping paper labels to stick to tin. All the tins want is the surface to have some 'bite' on it. A rub with emery-cloth to roughen the surface is sometimes enough. Cheaper and just as effectual as tr. benz. co. is a weak brush-polish made with methylated spirit, or a little shellac dissolved in methylated spirit will do all that is necessary. If the tins have a slight projecting edge top and bottom, to prevent the labels slipping off, a wrapper or envelope label is the best, going all round the tin and only gummed on the overlapping edge."—Wm. Bousfield.

Scotch and English.

"I should be glad if you will allow me to correct a statement attributed to me in the report of the West Riding meeting held on November 24. The report reads: 'Mr. Mortimer said he could not see why, if the English chemists are to accept the Tariff, the Scottish chemists should not also do so.' What I really said was, 'If the Scottish chemists are not going to accept the new Tariff with 0.8d. as an establishment charge and the low dispensing-fees, why should the English chemist accept it?'"—A. Mortimer (Harrogate).

Jay Macksims

(as he writes them).

1. The way to improve pharmacy, says Mr. Kirkby (in effect) at Liverpool is for 1,000 of you to leave it for chemistry. I agree.

2. He's a clever man. Twelve years ago he gave us a curriculum—"a fearsome affair," said "Xrayser"—of biology, geology, mineralogy, physics, pharmacology, and zoology.

3. Since then law, dentistry, medicine, and wholesale have claimed 1,000 men. Now it is chemistry; anything to escape from the counter.

4. We ought to dominate the chemical world (says Mr. Kirkby). I agree; but what has that got to do with retailing?

5. Boots' reply to Body is a sharp contrast: "We sympathise, but we must deal with this in a practical manner. What do you propose: come off the panel? We do not."

6. When all the men who despise retailing have escaped from it, I can see my burly friend Robinson, of Liverpool, convening a small meeting in the parlour of some friendly tavern, where we can in one hour settle the education of retailers for the next fifty years. And perhaps even Boots might be there: who knows?

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

Coughs (51/43).—Your pastilles are exempt from stamp-duty if they are prepared according to the formula referred to on the label. It is not necessary to print the formula number on anything else than the label.

Mortgage (46/70) has borrowed money upon mortgage, and has received a letter from the mortgagee intimating that he proposes to raise the rate of interest. Can the mortgagee enforce this proposal otherwise than by threatening to call in the debt? [Not unless the mortgage-deed enables him to do so.]

App. (46/46) is apprenticed for two years and eleven months from April 1, 1915. Since that date he has, through illness and with his master's consent, been absent from work for ten weeks. Will the apprenticeship end on March 1, 1916, or must "App." serve an additional ten

weeks after that date to make up for the period of his absence? The indenture is silent upon the point. "App." is not liable to serve after March 1, 1916.]

J. N. T. (85/39).—The agreement with your late employer is binding upon you. Although you may now consider it to be rather restrictive, it is a valid contract, and such things are not treated in this country as scraps of paper. We cannot possibly in such matters as this assume the functions of a Court of Justice, and that is practically what you invite us to do. We advise you and your prospective employer to approach your late employer, present the facts to him, and endeavour to come to some arrangement whereby he shall waive the more stringent part of the conditions which you agreed to.

A. J. C. (46/50).—The conditions upon which vaseline is sold by the Chesebrough Manufacturing Co. state that nothing contained therein "shall be construed to prevent any dealer or druggist from mixing 'vaseline' petroleum jelly with other substances in the compounding of salves or ointments or otherwise, provided the product so compounded is not sold under the trade-mark name of 'Vaseline'; nor to prevent any dealer or druggist from compounding physicians' prescriptions in individual cases." This covers your point, but we may also state that the company are required by the Commissioners of Customs and Excise to stamp such combinations of their product as "carbolated vaseline," because the title is regarded as a claim to proprietary rights, and if any other compounder were free to use the title his preparation would also be liable to medicine stamp-duty.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

H. J. (23/38).—HAIRDRESSERS' ANTISEPTIC.—As a colourless antiseptic formalin is employed, preferably in the saponified form (see *C. & D.*, October 16, p. 60). The other class of antiseptics, represented by lysol, is used for mixing with water to make a disinfecting liquid for hair-brushes, combs, razors, and shaving-brushes.

Spicr (28/45).—Formulas for FLAVOURING-OILS for cod-liver oil and emulsions of it are given in "Pharmaceutical Formulas," beginning on p. 603. A single drop of any essential oil is sufficient for an ounce of cod-liver oil.

Sheep (42/52) has a customer who has five sheep in a flock of fifty whose lips outside are badly blistered and cracked. What is it, and what is the best remedy? [This seems to be APITHA, or THRUSH, seen principally in lambs, but also in older animals: it is due to irritant vegetable matters, stomach irregularities, and systemic derangement. Give laxative medicine, change the food, and dress the sore parts with solution of alum or borax and glycerin. One-drachm doses of sodium hyposulphite should also be given.]

A. G. W. (87/38).—Nobody is exempted under LORD DERBY'S RECRUITING SCHEME who is not otherwise exempt. As you are not a registered chemist nor employed in dispensing Insurance prescriptions, the arrangement whereby such persons may offer themselves for the Reserve does not cover you.

T. B. (50/52).—Aqueous mixtures containing MAGNESIUM SULPHATE and ALKALINE BICARBONATES give a precipitate of magnesium carbonate after a short time. The reason is that sooner or later a bicarbonate in aqueous solution is changed to carbonate and reacting with magnesium sulphate a precipitate is formed.

Munitions (51/23).—Your ointment will be better if you omit the borie acid from it, as it will only make trouble with the calamine. It would not be improved by the addition of mercury oleate; which also would interact with the calamine.

F. R. (48/51).—The only way to remove scratch-markings from the tops of glass showcases is to have the glass re-polished, and that is a thing that cannot be done *in situ*.

H. P. M. (46/65).—Silver hair-dyes act quickly. Where slow action is desired "restorers" containing lead or bismuth associated with sulphur are employed.

P. & S. (31/34).—GLYCEROPHOSPHATES.—The following are two methods of preparing *Quinine glycerophosphate*: (a) A solution of calcium glycerophosphate 10 in water 300 is mixed with a solution of quinine hydrochloride 34.8 in water 1,000. (b) Dissolve quinine hydrochloride 15 grams in water 500 c.c., and sodium glycerophosphate 15 grams in water 500 c.c. The mixed solutions are heated to boiling, and on cooling quinine glycerophosphate separates out in crystals. *Ferric glycerophosphate* is obtained by the action of glycerophosphoric acid on moist ferric hydrate and precipitating the solution with alcohol. The ferrous salt is prepared in a similar way, using the ferrous carbonate.

G. A. B. (38/22).—We are not acquainted with a process of "transferring the coloured picture from a postcard to a plaster-of-Paris mould."

D. M. D. (28/74), writing in regard to the SCARCITY OF RENNET owing to the prohibition of the slaughter of calves, inquires if there are any substitutes for rennet equally efficacious in cheese-manufacture. [The enzyme of rennet differs from other coagulants of milk—*e.g.*, acids—in the quickness with which it acts, and in the properties which it imparts to the resulting curd. Acid-curd is not so suitable for cheese-making as rennet-curd, because its constitution is less favourable to the growth and activity of the bacteria needed for cheese-production. There are, however, several vegetable products which have a similar effect to rennet on milk—*e.g.*, *Onopordon Acanthium* (cotton thistle), *Cynara Cardunculus* (cardoon), and *Atractylis huius*. Some of these flowers are in use as milk-coagulants, but not to any extent. Until the slaughter of calves is allowed it would seem that the only practical method of obtaining rennet is to import it, but as several neutral nations prohibit the export of this substance it looks as though the scarcity will continue.]

Proteid (36/5).—(1) KOHLER'S "COSMETICS" is a translation from the German. It is published by Scott, Greenwood & Co. at 5s. (2) Your further inquiry for a book on "phosphates, casein and proteids" is vague. If it refers to the manufacture of GLYCEROPHOSPHATE AND CASEIN FOODS, the reply is that there is no book published on the subject. You will, however, find some information by consulting the specification of the expired patent for sanotogen—No. 1541 of 1898, "Albumen preparations soluble in water from glycerophosphates and albuminoids"—where three processes of manufacture are outlined. (3) TESTING FOR SPIRIT.—In the case of spirituous liquids containing extractive, it is necessary to distil off the spirit and make up to the original volume with distilled water before the specific gravity of the spirit can be obtained.

Tea (36/3).—From what you say it appears that the tablets of TEA-IMPROVER consist of sodium carbonate. Although in some parts of the country it is the practice to add a little soda to the teapot for the purpose of extracting the tea more completely, it is questionable if this is an improvement upon the properly-made infusion.

A. R. W. (35/45).—BOOKS ON CHEMISTRY.—See *C. & D.*, August 14, p. 58.

G. D. M. (38/36).—BOOKS ON CONFECTIONERY.—Skuse's "Complete Confectioner" (Bush, 7s. 6d.), Gunter's "Modern Confectioner" (Dean & Son), Read's "Confectionery" (Dean & Son, 1s.).

E. M. F. (34/58).—We cannot undertake to identify substances the labels of which have been lost.

Fructus (50/18).—The aniline dye to which you refer is a dark brown. You might obtain further information as to present price and demand by writing to Williams Bros., Hounslow.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Dec. 15, 1865.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

The next Examination of Chemists and Druggists in Business on their own account will be held on Wednesday, the 14th March, 1866.

Candidates must give notice at least ten days prior to the day of Examination. Particulars may be obtained from ELIAS BREMIDGE, Secretary and Registrar, 17 Bloomsbury Square.

[The above is an advertisement on a page which contained advertisements of the following among others: Fresson's Neutral Salts; Calvert's Pure Medical Carbolic Acid; Randall's Black-currant Lozenges; Mackenzie's Pepsine Wine; Jewsbury & Brown's Oriental Tooth-paste.]

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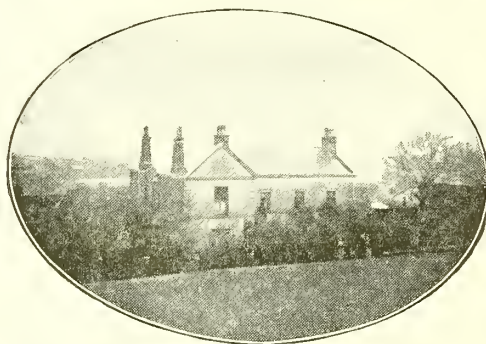
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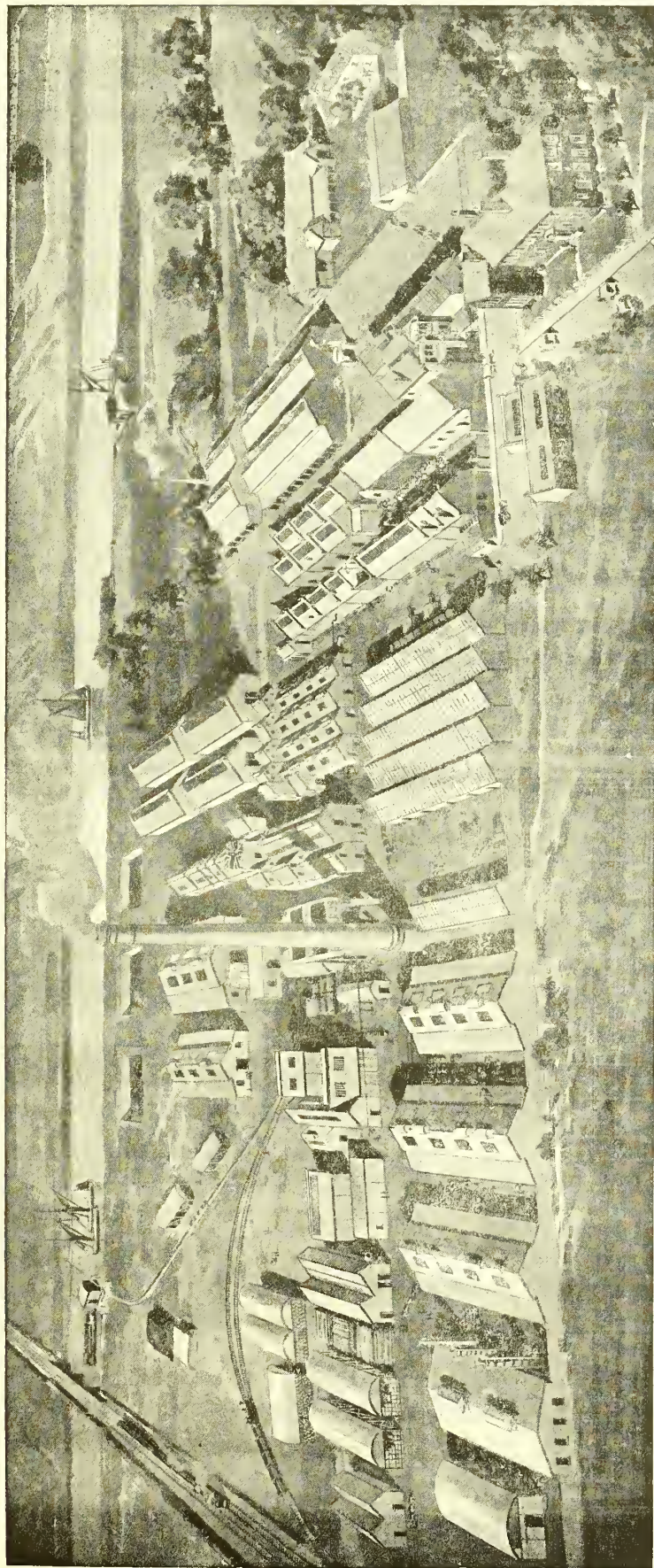
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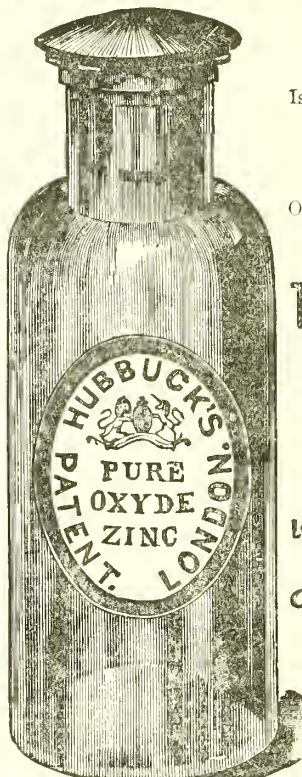
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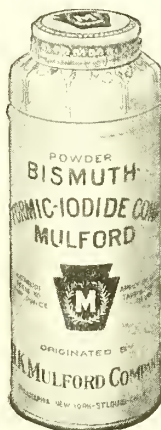
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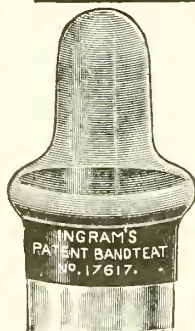
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Heavy weight each	3 0	3 3	3 6	3 9	4 1	4 8	4 11	5 3
Light "	2 11	3 1	3 4	3 6	3 10	4 3	4 7	4 10
Cockburn's shape "	3 0	3 3	3 6	3 10	4 2	4 8	4 11	5 3
Covers, scarlet or grey plush "	0 8	0 8	0 10	0 10	1 0	1 1	1 2	1 4

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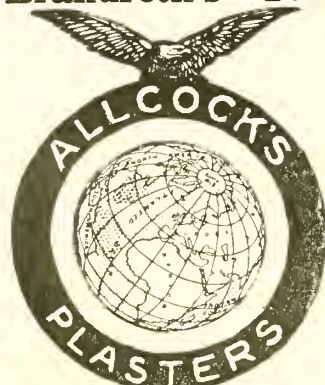
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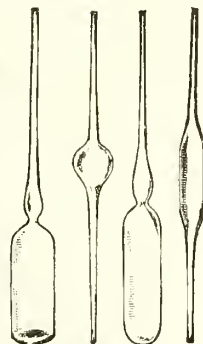
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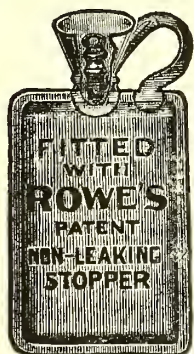
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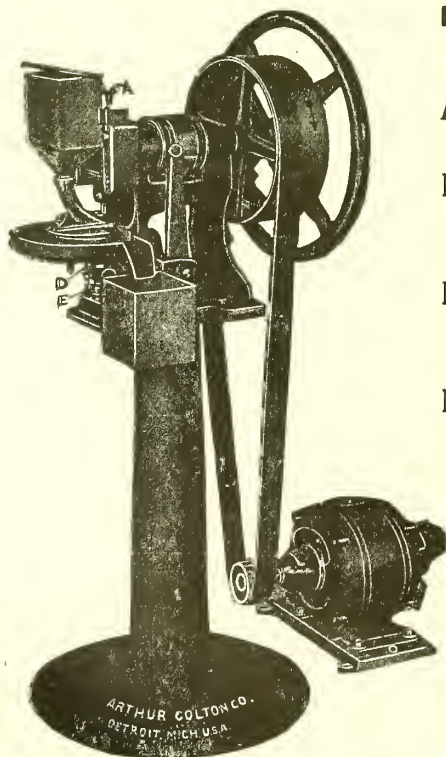
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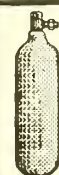
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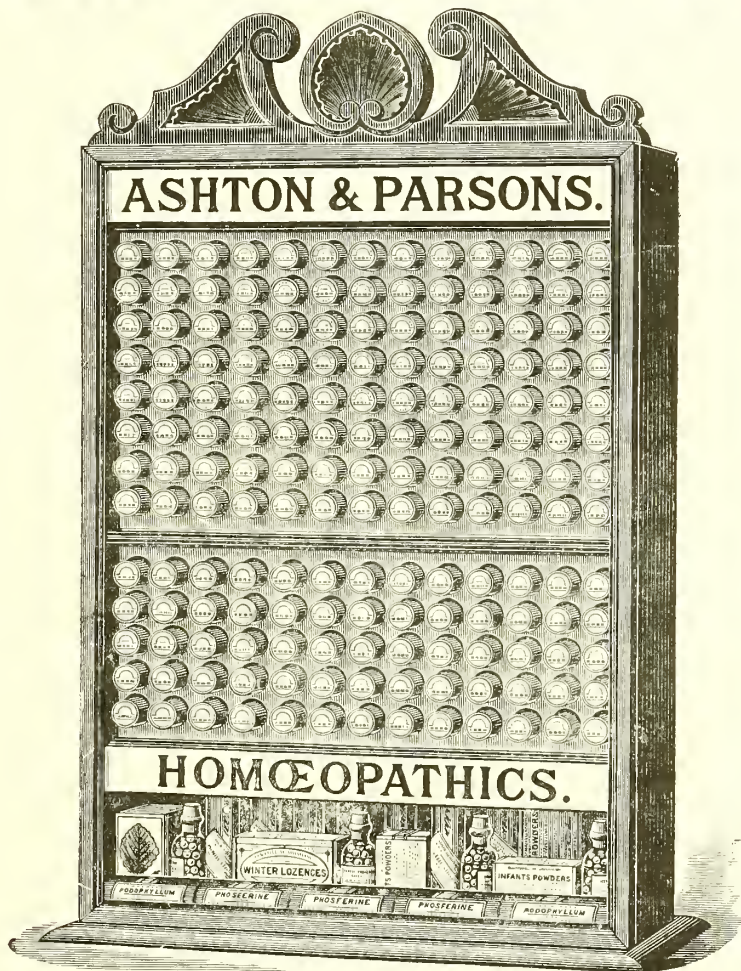
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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, DECEMBER 4 1915

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers, and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

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at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two)

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2.—LONDON (Main Thoroughfare).—Special Opportunity.—For immediate Disposal, good-class Business in good position; returns about £1,800; *net profit between* £350 and £400; the business is known to us, and we can recommend it; valuation and £50 premium.

3.—LONDON, S.E. (Few Miles Out).—Established Business, capable of considerable extension; situate in the best position; the shop offers a splendid nucleus; the returns at present are about £900; no reasonable offer refused; illness cause of sale.

4.—MIDDLESEX.—Retail and Dispensing Business; situate in good residential locality, within easy reach of town; practically no opposition; returns £1,500, increasing; modern house on lease; terms, valuation of stock and sum for goodwill and fixtures to be arranged.

5.—SURREY.—For value of stock and fixtures only, well-established Business, returning £450 to £500, *with net profit one-third*; net rent £15, on lease; well-appointed house, with garden, stabling, etc.

6.—LONDON, W.—Price £475; good middle-class Retail and Dispensing Business, with Photographic Sundries; busy thoroughfare in nice residential suburb; 9-roomed house, private entrance; double-fronted shop, well fitted and stocked; rent £45.

7.—HERTFORDSHIRE (Market Town).—Good middle-class Retail and Dispensing Business; situate in residential district; returns about £1,000; very profitable and steadily increasing; valuation terms entertained.

8.—HANTS.—Early sale necessary; vendor, having broken down

in health, will deal liberally with a purchaser; high-class Retail and Dispensing; situate in centre of large town of importance; returns £2,500; scope for development; terms, valuation of stock and fixtures, less a discount to be agreed; worth the attention of the good-class Chemist.

9.—GLOUCESTERSHIRE.—Unopposed Mixed Retail Business; present hands 17 years; returns between £700 and £800; *estimated net profit* £200; rent only £21 10s. for single-fronted shop and good 8-roomed house; garden full of fruit trees, also outbuilding; fairly good fixtures and ample working stock; no reasonable offer refused; part payment.

10.—NOTTS.—Light Retail, Dispensing, and Photographic; returns between £1,000 and £1,100; *net profit* £250; rent £35; about the value of stock and fixtures required.

11.—WILTS.—Old-established Business; has been neglected; present returns, under unqualified management, £1,000, which includes sale of Wines and Spirits; good locality; convenient house; valuation of stock and fixtures only required.

12.—LANCS (Main Marketing Thoroughfare).—Ready-money Retail, with excellent Optical connection; returns £1,370; *net profit* about £600; terms, valuation of stock and fixtures and sum for goodwill to be arranged.

13.—WALES (Seaport).—Established Business, Retail and Dispensing, together with Wine Licence; returns £1,500; *profits* good; the business is capable of development; valuation terms entertained.

14.—PARTNERSHIP.—A Partner required in very old-established Retail Business, situate on the Coast; a gentleman with small capital would not be objected to; returns, including Branch, £2,500, with scope for extension.

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2.—YORKS (West Riding).—Middle-class Business in large Manufacturing town; returns over £1,000; net profit £350; very low rent; good premises, pleasantly situated; price £650, little more than valuation.

3.—LINCS (Market Town).—Light Family Retail Business, with own Specialities; returns about £1,350, increasing; large double-fronted shop, well fitted and stocked; low rent; price £900.

4.—CHESHIRE (Border of).—Light Retail, Dispensing, and Agricultural Business in small town; returns about £1,200; net profit £300; double-fronted shop, fully stocked; price £650.

5.—WILTS.—Unopposed Light Country Retail, with Mineral Waters; returns £1,200; net profit £500 clear; large house and garden; stock worth £650; price £700.

6.—NORFOLK.—Good-class Business, in large town; neglected; returns £800; plenty of scope; corner position; low rent; price £350; £100 can remain; strongly recommended.

7.—LONDON, S.W. (Busy Main Road).—Good medium-class Retail, increasing; returns £1,500; low rent, fine corner shop; stock and fixtures worth £1,000; price £800; owner on active service.

8.—SURREY (Suburb).—Good-class Light Family Retail, pleasantly situated; returns £1,450; good profits; attractive Pharmacy, fully stocked; price £850, or valuation terms; books properly kept.

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LANCS (Popular Seaside Resort).—Exceptional opportunity for acquiring a sound Business at a very moderate figure; handsomely fitted, well stocked; occupies a commanding corner position; turnover £720 (increasing); exceptional profits; easy rent; cash £300. Apply, 55/57, Office of this Paper.

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THE VALUABLE SHOP FITTINGS.

Nests of Drawers, Wall Fittings, Centre Counters, Perfumery and other Cases, Chairs, Cashiers' Enclosures,

HANDSOME ALL PLATE GLASS GLASS BLOCK COUNTERS AND UPRIGHT CENTRE CASES, MIRROR-LINED WALL SHOWCASES.

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ALDERSHOT.—One or two unqualified Assistants. State particulars, with salary (outdoors) to Williams & Litchfield, Pharmacists.

BIRMINGHAM.—Assistant wanted; outdoors; Counter, Dispensing, Window-dressing; hours 8.30 to 7.30; no Sunday duty; wages to commence 35s. Apply, Mr. Wakefield, c/o Bellamy & Wakefield, Pharmaceutical Chemists, 1 Easy Row, Birmingham.

BOLTON.—Wanted, qualified Chemist to Manage a Branch; not eligible for military service. Apply, Waller & Riley, Ltd., Chemists, Bolton.

BOURNEMOUTH.—Junior Assistant, with Dispensing experience (lady or gentleman). Apply, giving particulars as to experience, when disengaged, salary required (indoors), to William Jones, Pharmaceutical Chemist, 254-256 Old Christchurch Road, Bournemouth.

BRIGHTON.—Good Junior wanted for high-class Dispensing business. Apply, with all particulars, to Watts & Co., 114 Church Road, Hove.

CUMBERLAND.—Assistant wanted; qualified man; ineligible for Army; or qualified lady; outdoors. Apply, 98/27, Office of this Paper.

EARL'S COURT.—Junior, ineligible for Army, with Dispensing experience; Part- or Whole-time; lady not objected to. Full particulars to Brown, 70 Warwick Road, Earl's Court, S.W.

EASTBOURNE.—Assistant required for good-class Retail and Dispensing business; in- or out-doors; lady or gentleman; easy hours; comfortable situation. State age, height, experience, salary required, and enclose photo, to J. Forbes, Pharmacist, Eastbourne.

GLAMORGAN.—Exceptional opportunity for capable, energetic, qualified Manager; good salary and a liberal interest in profits offered. 97/6, Office of this Paper.

LIVERPOOL.—A reliable Assistant for quick Counter and Dispensing business; working hours about 53 per week; a good Dispenser, up to date, and satisfactory references necessary. All particulars, references, salary, etc., in first letter, please, Vincent Strawson, 23 Moss Street, Liverpool.

LIVERPOOL.—Wanted, Assistant who thoroughly understands Optics and used to Dispensing. 98/3, Office of this Paper.

LONDON (Suburb).—Assistant; also a Junior; male or female; Whole- or Part-time; outdoors; good-class Retail, Dispensing, and Photographic; salary offered an improvement on last permanent berth. State usual particulars, salary expected, and when disengaged, 94/32, Office of this Paper.

LONDON (West End).—Wanted, a qualified, competent Assistant, with good credentials; one capable of taking temporary charge during absence of manager; personal interview required. "Manager," 164 Piccadilly, W.

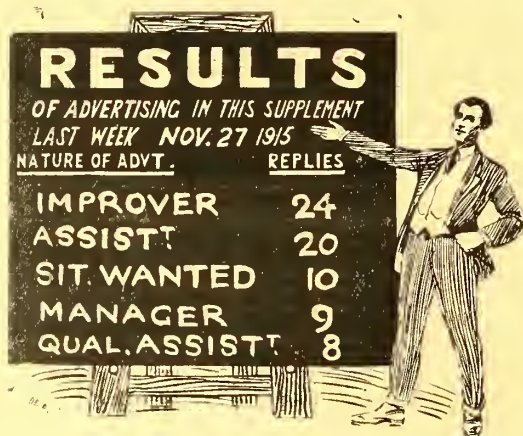
LONDON, N.—Assistant wanted for Counter; whole day off one 1/2 week and half-day the next week alternately. State age, experience, references, salary required, and when disengaged, in first letter, or apply personally, to Bishop & Vincent, 460 Holloway Road, London, N.

LONDON, N.—Wanted, Assistant immediately (lady or gentleman); qualified or unqualified; temporary or permanent. Apply, "X," (98/28), Office of this Paper.

LONDON, N.—Lady Dispenser wanted; outdoors; Light Retail and Dispensing business; comfortable situation. State age, experience, salary required, and photo if possible, Starmer, Chemist, North Finchley, N.

LONDON, S.W.—J. B. Barnes & Son, 205 Knightsbridge, require at once, for high-class Dispensing, qualified Assistant (one ineligible for Army preferred). Full particulars, experience, salary, etc., to W. Hill.

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.



RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

LONDON, N.W.—Assistant wanted for Dispensing business; man or woman (man not eligible for military service); outdoors. Apply, with full particulars, P. Davidson, Fh. Chemist, 342 High Road, Brondesbury, N.W.

LONDON, S.W.—An Assistant wanted; well experienced in Dispensing. Apply to A. J. Phillips, 156 Cromwell Road, South Kensington, S.W.

LONDON, W.—Competent Assistant required, with previous Dispensing experience; outdoors; two Assistants employed. Particulars of previous engagements, age, height, salary expected, and when disengaged to 99/1, Office of this Paper.

LONDON, W.—Qualified Manager for progressive Cash business; permanent and lucrative berth for a capable man; married man about 40 preferred. 97/60, Office of this Paper.

LONDON.—Qualified Assistant for West-End Dispensing business. 80/16, Office of this Paper.

LONDON LOCK HOSPITALS, Dean Street, Soho, and Harrow Road, W.—Qualified Dispenser required immediately (ineligible), with Minor or Hall qualification, for the duration of the war; salary £100 per annum, with partial board. Applications to be sent at once, accompanied by copies of two recent testimonials, to the undersigned, from whom further particulars can be obtained if desired. By order of the Board, Hy. J. Eason, Secretary, Offices, 283 Harrow Road, W.

LUTON.—Assistant, lady or gentleman; unqualified; outdoors; good at Counter and Dispensing, for quick Cash business; hours 8 to 8, Saturdays 10, Wednesday half-holiday; no Sunday duty. Please give particulars of experience, age, and salary required, good references essential, Cocker, Post Office Pharmacy, Dunstable Road, Luton, Beds.

MANCHESTER.—Messrs. Blain & Hunkinson, Pharmacists (formerly Woolley's), 69 Market Street, have a vacancy for a Junior qualified Assistant; short hours; no Sunday duty.

MANCHESTER District.—Junior Assistant (outdoors) required for good-class Retail and Dispensing business; only military ineligible need apply. Address usual particulars, with photo (if convenient), to T. & W. Woodruff, Chemists, Cheadle, Ches.

MIDLAND Health Resort.—Capable lady Assistant required; salary 30s.; must be a good Dispenser and have had Counter experience. 97/600, Office of this Paper.

NORFOLK.—Wanted, as soon as possible, two qualified or registered Assistants as Managers of Branches in small market towns; also one unqualified Assistant; permanencies promised to suitable men. Apply, stating age, qualification, salary required, and references, to Ralph Ling, Chemist, Cromer.

SALISBURY.—Assistant (lady or gentleman) wanted for Light Retail and Dispensing; indoors; time for study. Please state experience, references, and salary required, D. Lewis, Pharmacist, Tisbury, Salisbury.

SHREWSBURY.—Unqualified Assistant required; easy hours; no Sunday duty. A. Williams, 23 Wyle Cop, Shrewsbury.

SOUTH OF ENGLAND.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH WALES.—Wanted, immediately, reliable Assistant (not eligible for military service), or lady Dispenser and Bookkeeper; good salary to the right person; no Sunday duty; half-holiday Thursday; hours 9 to 8, Saturday 10.30. Please give full particulars first letter, age, experience, salary required, etc., to Francis, Chemist, New Tredegar.

WANTED, lady Dispenser; Part-time (evenings); South-West London. 97/25, Office of this Paper.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

TAUNTON.—Improver or Junior for Light Cash Retail; outdoors; short hours; no late attendance or Sunday duty. Give full particulars, with salary required, A. W. Williams, Pharmaceutical Chemist, Taunton.

WAKEFIELD.—Assistant wanted, unqualified, lady or gentleman, for good-class Dispensing business. Apply, giving usual particulars as to age, height, experience, and salary, to Chaplin, Chemist, Wakefield.

WESTCLIFF.—Capable Assistant, qualified or unqualified; also lady Dispenser; must be accustomed to modern good-class Retail and Dispensing; male applicants must be ineligible for military service; very comfortable berth assured. Send full particulars first letter, and salary required (indoors and outdoors), enclosing recent photograph, to Body, "Westwood," Westcliff-on-Sea.

YORK Equitable Industrial Society, Ltd.—Drug Department.—Wanted, lady Assistant, with previous experience; easy hours; no Sunday duty. Applications, stating age, wage, and enclosing copy of recent testimonial, to be received not later than Tuesday next, December 7, addressed: 22 Railway Street, York.

A VACANCY occurs for a good Assistant in a Mixed Agricultural and good-class Retail business in a country town. Apply, with full particulars, to "Inquirer" (98/40), Office of this Paper.

ASSISTANT for Dispensing and Light Retail; moderate hours; a weekly half-holiday; no night or Sunday duty; healthy and pleasant locality. Apply, stating age, experience; salary required, and when at liberty, also references, Thornton, Pharmacist, Redditch.

ASSISTANT wanted for good-class business; outdoors; not eligible for military service. Apply, with full particulars, salary required, and photo, to E. Bing & Son, Pharmaceutical Chemists, Canterbury.

ASSISTANT required at once. Call, Pratt, Pharmacist, 94 Canterbury Road, West Kilburn, N.W.

ASSISTANT; outdoors; competent; hours 9 to 9 p.m. Apply, P. White, Ltd., Chemists, 157 Commercial Road, London, E.

ASSISTANT wanted, under qualified manager, for good-class Store trade, S.W. district; comfortable hours; no Sunday work. Apply personally, or by letter stating full particulars and when disengaged, Coppen Bros., Ltd., Head Office, 12½ Carey Street, Vincent Square, Westminster, S.W.

BOUTALLS, LTD., London, W.C., require qualified man as Branch Manager. Apply, by letter or personally, Boutalls, Ltd., 150 Southampton Row, W.C.

CHEMISTS, smart, qualified men, accustomed to quick Cash trade, required for branches in the North of England. Please state salary required, references, experience, and when disengaged, "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

CHEMISTS' Assistants for Retail Counter; ineligible for the Army; applications considered from ladies with the necessary experience. Apply, before 11 a.m. or after 5 p.m., Selfridge's, Oxford Street.

COOPER, SON & CO., LTD., require a qualified Assistant. Apply to Mr. A. J. Bullen Cooper, 80 Gloucester Road, South Kensington, S.W.

GOOD opening for qualified Chemist; owing to death of proprietor, established 30 years in good neighbourhood; rent and price very low. Apply for particulars, Battle, Son & Maltby, Lincoln.

IMMEDIATELY, competent all-round Assistant; unqualified; Store business; short hours, no Sunday or N.H.I. work. "Pharmacist," Palmer's Stores, Ltd., Hammersmith, W.

JOHN BARKER & CO., LTD., Kensington, W., require a qualified Dispenser; ineligible for military service; hours 8 to 6, 1 o'clock Saturdays; no Sunday duty. Apply, R. E. Baron.

JUNIOR Assistant; lady or gentleman; indoors; abstainer preferred; a good opportunity to acquire a varied knowledge of the business. Please state age, experience, and salary required, to Mr. Wilson, Chemist, 80 Lamb's Conduit Street, London, W.C.

LADY Assistant, Hall qualification, Full or Part-time. State salary (outdoors), experience, etc. Apply, J. Elsworth Alecock, Pharmaceutical Chemist, 69 Churchfield Road, Acton, W.

LADY Assistant wanted, with Dispensing experience. Apply, F. P. Watson, Pharmaceutical Chemist, 6 Bailgate, Lincoln.

LADY Dispenser; Medical Practice, London, S.W.; 30s. (outdoors). State experience, 99/8, Office of this Paper.

LOCUM, willing to relieve at short notice any Chemist in Swansea or West Glamorgan. References, terms, W. Tyryms Thomas, Hon. Secretary, Gorseinon.

MANAGER required about December 28 for small market town; good-class Retail, Dispensing, and Photographic business; must be good Counterman and Prescriber, and understand the Agricultural side. Apply, with full particulars as to salary and experience, to Holme, Chemist, Wallingford, Berks. Applicants not answered in three days declined.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

MESSRS. TUPHOLME & SON require an Assistant; preference given to gentleman who would be willing to live indoors; four Assistants kept. Apply, Mr. Haynes, 1 Colcherne Terrace, Earl's Court, S.W.

PART-TIME Assistant required beginning of year or before; would suit student or active middle-aged man. Apply, T. Byass-Jones, 351 West Green Road, Harringay, N.

QUALIFIED man (elderly) required at once; comfortable, easy time; London district. Apply, with full particulars, salary required, etc., 85/28, Office of this Paper.

QUALIFIED Chemist wanted; elderly man preferably. Apply, with full particulars and references, Wade, Chemist, Llanelly.

QUALIFIED Superintendent, to take active part in management of small limited company doing good-class Family trade; country town near London; hours light; Photographic knowledge essential. References and usual particulars, 99/9, Office of this Paper.

RELIABLE Assistant required, ineligible for Army; comfortable berth (outdoors); good prospects to reliable, conscientious worker; working-class district. State salary and give last engagement and if disengaged, Clarke, Chemist, Bedwas, South Wales.

REQUIRED at once, willing and obliging Assistant for Country business (non-enlisting age), or lady. State salary, references, etc. (outdoors), W. Mousley, Chemist, Redditch.

SAVORY & MOORE require immediately two qualified Dispensers, Minor qualification (men or women). Apply, personally or by letter, stating experience and salary required, and enclosing photograph if possible, 143 New Bond Street, London.

UNQUALIFIED Assistant wanted for a good-class business; two kept; hours easy; duties light; Sunday duty two hours each third Sunday. Apply, giving usual particulars; to 85/18, Office of this Paper.

UNQUALIFIED Assistant wanted immediately; Light Retail and Dispensing. State full details, Harrison, 25 Hyde Park Road, Leeds.

UNQUALIFIED Assistant wanted, with knowledge of Dispensing and Photography; good Counterman and Salesman essential. Apply, with fullest particulars, to Parke's Drug Stores, Ltd., 65 Harmond Street, N.W.

WANTED, lady Dispenser, qualified (outdoors), for colliery district, East Coast of Northumberland; will be required to enter up National Insurance index cards. State age, salary required, and experience, to Drs. Moyes and Loughridge, Amble House, Amble, Northumberland.

WANTED, Assistant, over military age, for Retail and Dispensing; also Junior, not eligible for military service. Apply, with references, etc., Mason & Co., Cash Chemists, 80 King Street, South Shields.

WANTED (immediately), qualified Manager for Branch; outdoors. Please give full particulars, age, experience, and salary required, to J. Robinson, 22 Cross Cheaping, Coventry.

WANTED, early in January or sooner, qualified Assistant or Manager for large high-class Dispensing and Family business; knowledge of Photography, Dentistry, and Optics preferred; succession entertained; present owner studying for Medical. Apply, F. D. Spencer, The Pharmacy, Stratford-on-Avon.

WANTED (at once, till the end of the year), a lady or gentleman to assist with Counter and Dispensing, in- or outdoors by arrangement. Pelham Young, Pharmacist, Hounslow. Phone, 155 Hounslow.

WANTED, a Dispenser (Whole-time) in a Lancashire town; state age, experience, and terms, and when disengaged, and give reference. Apply, by letter only, to Dr. Utting, 5 Moor Park Avenue, Preston.

WANTED immediately, evening Assistant for five evenings a week; hours 7 to 10; for Dispensing and Counter work. State terms, references, and experience to Howling, 70 Green Street, Forest Gate, E.

WANTED, directly after Christmas, qualified Assistant; single; age from 35 to 40 years; ineligible for military service; outdoors; Light Retail and Dispensing business; easy hours; no National Insurance work. Apply, stating height, age, salary required, reference, etc., to R. T. Clarke, 131 Milton Road, Gravesend. Applications not answered in two days declined.

WANTED (at once), Junior Assistant or Improver for good-class business. No Parcel work; hours light; time for recreation daily; outdoors; good salary. Apply to Chas. Rundle, 220 High Street, Walthamstow, London, N.E.

WANTED, for South Coast Pharmacy, Dispenser; lady preferred. State qualification (if any); salary required (outdoors) to 98/18, Office of this Paper.

WANTED smart unqualified Assistant, young or elderly; commencing salary £2; comfortable berth; live out; Croydon district. Apply, "Energetic" (97/15), Office of this Paper.

WANTED, a qualified Managing Assistant for small Lancashire Manufacturing town, to live out; good Counterman and Window-dresser; used to Insurance Dispensing; must be steady and obliging. State age and salary required, Halsteads, Chemists, Rishton, near Blackburn.

WANTED, experienced Assistant (male or female) for the Retail and Dispensing Department. Apply, giving full particulars of age, experience, salary (indoors), and references, to Messrs. Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

WELL-EDUCATED youth, with knowledge of Drugs, required in London office; no previous office experience necessary; good opening for ex-Apprentice who would prefer Wholesale to Retail trade; must be ineligible for the Services. Address, for interview, to Box W. 369, c/o Dawson's, Advertising Agents, Cannon Street, E.C.

WHOLESALE.

YORK.—Assistants wanted in all departments, Wet, Dry, and Laboratory; men ineligible for the Army with some experience of the Drug trade, Wholesale or Retail. Apply, with full particulars, to Raines & Co., Wholesale Druggists, York.

A REPRESENTATIVE having some Therapeutic knowledge, and with a connection among Doctors and Chemists in London, to Manage a business; good remuneration on salary and commission basis to the right man. Write fully, qualifications, and salary required, 101/22, Office of this Paper.

CAPSULE Maker, experienced in hand-made Gelatine Capsules, required as Foreman of the department; permanency; good wages. Apply, stating age, experience, and full particulars to the Standard Tablet and Pill Co., Ltd., Hove.

CHEMICAL Apparatus house have opening for a good man. Ineligible for military service or over military age, to check and despatch Shipping orders; good salary offered to man used to similar work. Apply, by letter, stating qualifications, references, and salary required, to 54/26, Office of this Paper.

CHEMIST.—Wanted, an Assistant Chemist, not eligible for military service, or young lady used to Laboratory work, near London. Apply, by letter, "A. W. B." (101/23), Office of this Paper.

COUNTERMEN, experienced Wets and Dries; also Packers; good wages and permanency for suitable men. Apply, Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close.

DRUGGISTS' (Wholesale) Counter hand wanted. Apply at Apothecaries' Hall, Water Lane, E.C.

EXPERIENCED girls required for a leading house of Wholesale Druggists in the City; good wages and a permanency to suitable girls. 45/68, Office of this Paper.

FOREMAN wanted, with experience in Drug warehouse; permanency for good man; good wages. Apply, W. W. Flood & Co., 56 Great Dover Street, S.E., from 10 to 4.

FOREWOMAN wanted, for Packing Drugs and light articles, where a number of girls are employed; must have had experience in such packing. State age, present and past situations, references, and wages required, Reade Brothers, Manufacturing Chemists, Wolverhampton.

LABORATORY Assistant required; one accustomed to the examination of Foods containing sugar preferred. Apply, stating experience, age, and salary required, 37/4, Office of this Paper.

LADY Drug Traveller.—Wholesale Drug house require a qualified lady Pharmacist; one who has had experience as Traveller preferred; applicants must give particulars as to their business training, references, and salary required; it could be arranged for the traveller to live in a central position, and, as a rule, return nightly. Apply, "Drug Traveller" (53/49), Office of this Paper.

MAJOR man required, to assist buyer; commencing salary £4 per week. "M. M." (98/33), Office of this Paper.

MESSRS. LEVERS, Manufacturing Chemists, 56/58 Chapel Street, Manchester, have vacancies for Representatives for London and South, Glasgow, Edinburgh, Birmingham and Midlands, South Wales, Lancs, and Yorks, to call on Wholesale and Export trade only for all classes of packed Tooth Powders, Ointments, and Toilet Preparations; commission and substantial bonus.

PACKER wanted at once; good wages to competent man; also man for Wet Counter, accustomed to handling heavy lines. State age and experience, 96/34, Office of this Paper.

SAVORY & MOORE require (immediately) a Pharmaceutical Laboratory hand. State age, experience, wages, etc., to Manager, 143 New Bond Street, W.

TABLET Room.—Wanted, an experienced man accustomed to Sugar- and Chocolate-coating, Granulating, etc. Address, stating age and wages required, to "B." (53/42), Office of this Paper.

TABLETS.—Foreman Tablet hand required on Government work; permanency and good remuneration to competent man. Apply, giving full particulars of experience, etc., to 52/45, Office of this Paper.

WANTED, a gentleman to Manage the Instrument Department of a Wholesale house in the provinces; must be capable of measuring and fitting Artificial Limbs and Orthopaedic Appliances, and also have a thorough knowledge of the Management of the Instrument business. Apply, giving fullest particulars as to experience, salary required, etc., 50/20, Office of this Paper.

WANTED, an Assistant Chemist for Cement testing; candidates eligible for military service or employed on Government work will not be considered; pay 7s. per day. Apply, by letter, stating age, etc., to Box No. 456, c/o Street's, 8 Serle Street, London, W.C.

WANTED, Traveller for an old-established Drug and Druggists' Sundries house; applicants should be ineligible for the Army. Reply, stating whether qualified, giving particulars as to training, experience as a traveller, salary required, and references, to "Chemists" (53/490), Office of this Paper.

WANTED, practical man who thoroughly understands the Manufacture of Acetosalicic Acid on a commercial scale; to a suitable man every encouragement will be given. Apply, in first instance, "Aspirin" (97/31), Office of this Paper.

WHOLESALE Manufacturers of Perfumery and Toilet Requisites require Representative for West of England ground. Apply, with full particulars, to 49/6, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

INDIA.—Junior Assistant required by old-established British house in Calcutta; Minor qualification; single; age under 27; 4 years' agreement; salary first year Rs. 275 monthly, rising yearly Rs. 25 per month; passage paid out and home. Apply, giving full particulars of qualifications, etc., to 80/24, Office of this Paper.

PARIS.—Wanted, immediately, experienced Assistant for good-class Pharmacy; ineligible for Army. Apply, stating usual particulars, Louis Nathan, 3 Rue Scribe, Paris.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every
10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

A QUALIFIED Belgian Chemist (married), who was in business in Alost, before the war, seeks a berth in England as a Dispenser; has been since July Dispenser in a good-class season business; can furnish good testimonial from present employer. Apply, stating salary (outdoors), Mons. Quintyn, 19 Edgcombe Avenue, Newquay, Cornwall.

A DVERTISER, qualified, 31, first-class experience and references, as Manager or Senior. 94/4, Office of this Paper.

A SSISTANT: 25; unqualified; disengaged shortly; Counter, Dispensing. "Assistant," Innes, Chemist, Hollingworth, near Manchester.

A SSISTANT: unqualified; fully experienced; middle-aged; married; Extractor; Locum; references. Hustwit, Clayton Street, Failsforth.

A SSISTANT, unqualified, married, 29, desires permanency; London preferred. G. A. Voizey, 9 Jameson Street, Notting Hill Gate, London, W.

A SSISTANT, unqualified, 24, seeks situation in Light Retail Dispensing business; N.H.I. experience. "Dispenser," 42 Broad Street, Nuneaton.

A SSISTANT: unqualified; 45; first-class experience, town and country; Eastern Counties preferred. "Aspirin" (94/31), Office of this Paper.

B IRMINGHAM.—Lady, Apothecaries' Hall, Hospital, Dispensary, and 3 years' N.H.I. experience, desires post at Chemist's or Institution. 90/25, Office of this Paper.

D ISENGAGED, experienced Locum (50); single, unregistered, abstainer; excellent references. "Energetic," 19 Chapel Street, Uxbridge.

D ISENGAGED; Assistant or Locum; thoroughly competent, reliable, experienced; good testimonials; town or country. "Chemists," 332 Green Lanes, Finsbury Park.

D ISPENSER, qualified (Hall), officially just over enlisting age, desires permanency; Greater London area preferred; experienced in Hospital, Doctor's Surgery, and Chemist's routine; excellent references; personal interview. Lloyd Smith, 13 Montague Road, Croydon.

E VENING work required by student now studying; had good-class experience; also served four years' apprenticeship; good Dispenser. 97/27, Office of this Paper.

E VENINGS; Dispensing, Counter, Stock; experienced. "Dispenser," 115 Scott-Ellis Gardens, St. John's Wood.

J UNIOR, vacant shortly, requires post in good class business; Portsmouth or district preferred. 97/3, Office of this Paper.

L ADY Dispenser, unqualified, 26, eight months' experience, requires situation with Chemist; good references. Roberts, 90 Bonner Road, Victoria Park.

L ADY Dispenser desires post with Doctor or Institution; Hall qualification; Bookkeeping. Miss Charlesworth, The Garrison, Purfleet, Essex.

L OCUM; qualified; 30; thoroughly experienced and trustworthy; shortly disengaged; any period undertaken. 94/3, Office of this Paper.

L OCUM, Manager, or Senior; outdoors; first-class West-End Photographic and Store experience; 45; qualified; married; highest references. Jones, 103 High Street, Colliers Wood, S.W.

L OCUM; disengaged; good Dispenser, Prescriber, and Extractor. "F., Denehurst, St. Briavels, Glos.

M ANAGER wants situation; up-to-date trading; experienced Buyer; used to controlling staff; Major qualification. Write, "Chemist," 116 Spring Street, Bury, Lancashire.

M ANAGER, well-known Proprietary, desires change; similar position. 96/32, Office of this Paper.

M ANAGER, Major (30), married, with Wholesale and Retail experience, seeks new position. 101/14, Office of this Paper.

N OTTINGHAM (or Near).—Assistant or Locum; good experience; Prescriber; local references. "Piperazine" (97/18), Office of this Paper.

P ART-TIME lady Dispenser (Apothecaries' Hall certificate); experience Typewriting; no other Dispensing; London or suburbs. Miss L., 3 Culross Street, Park Street, W.

P ART-TIME; qualified; Saturday afternoons; also one or two evenings weekly; S.E. district. 98/36, Office of this Paper.

Q UALIFIED; 40; disengaged; London or South Coast preferred. "Chemist," 9 Motcombe Lane, Eastbourne.

Q UALIFIED; experienced; disengaged shortly; ineligible. "M.P.S.," 35 Alresford Road, The Heights, Manchester.

Q UALIFIED, 22, seeks situation; disengaged; Midlands preferred. Parker, 21 Derby Road, Heanor.

Q UALIFIED, 28, seeks engagement; N.H.I. Dispensing, etc. "Sahs," 49 Elizabeth Street, Belgravia, S.W.

Q UALIFIED Dispenser requires afternoon engagement in London. Miss Samuels, 156 Elgin Avenue, W.

Q UALIFIED; Manager or otherwise; N.H.I. experience; Extractor; above age for enlistment; salary £3 5s., or equivalent; disengaged December 5. "Chemist," 10 Osborn Road, Forest Gate, E.

Q UALIFIED, 29; 5 ft. 6 in.; rejected; desires permanency; good experience. 96/39, Office of this Paper.

Q UALIFIED; 45; single; abstainer; best references; all-round experience, including Dentistry; Dispensary or Country Branch preferred; salary £5. "Statim," 1 Robinson's Place, Woodbrook, Oldham.

Q UALIFIED; experienced; middle-aged; outdoors. State terms. "Chemist," 68 Grove Lane, Camberwell.

Q UALIFIED Manager; London; 47; good references; knowledge of French and Italian. "Preparato," 32 Cambridge Avenue, Kilburn.

Q UALIFIED; 35; married; disengaged now; competent Refractionist. "H. G.," 2 Quarry Gardens, Tonbridge.

Q UALIFIED; 39; tall; good experience; trustworthy; Manager or Assistant; good references. "Capacity" (101/13), Office of this Paper.

U NQUALIFIED; Midlands preferred; Dispensing, N.H.I., Extractor; town and country experience. "Barium" (97/9), Office of this Paper.

U NQUALIFIED; 41; tall; single; London, seaside; provincial; Agricultural experience; permanency only. "Reliable" (97/37), Office of this Paper.

U NQUALIFIED; aged 46; life abstainer; good all-round experience, London and country; Dispensing, Optics, Counter; town or country; Yorkshire or North preferred. 99/11, Office of this Paper.

U NQUALIFIED; experienced Branch Manager; good references; trustworthy; permanency desired; married, no family. 97/29, Office of this Paper.

Y OUNG lady, 10 years' experience Window-dressing, Stock, Counter, Light Retail and Photographie, Accounts, requires permanency with opportunity to acquire Dispensing. "J.," c/o Miss Hall, 8 Emlyn Road, Shepherd's Bush, W.

WHOLESALE.

A PHARMACIST representing a London Manufacturing house in Lancs and Yorks, about to be disengaged, willing to accept Representation or commission with good-class house; first-class connection of many years' standing; highest reference. 55/4, Office of this Paper.

B IRMINGHAM and Midlands.—Representative, 12 years' sound connection leading buyers, open for one additional line New Year; commission; share expenses; Society guarantee. 98/13, Office of this Paper.

D EPARTMENTAL Manager, high-class Retail and Wholesale, advertising, organising, and administrative experience, seeks change; Major man; age 30; married; salary £190. 101/15, Office of this Paper.

G ENTLEMAN, married, reliable worker, ineligible, active, 84 years with present employer, seeks situation in Wholesale Drug house in London, Wet or Dry; 9½ years' Managing experience; accustomed controlling staff, checking and despatch; moderate salary. "Statim," 55 Lyal Road, Grove Road, Bow.

M EDICAL Propaganda.—Gentleman with highest references and first-class experience desires re-engagement; special experience in opening up new ground and introducing Medical specialties; married. 98/24, Office of this Paper.

T RAVELLER requires re-engagement; qualified Chemist with thorough experience of Drug and allied trades and of road; good selling record and references; disengaged. "Oleum" (97/32), Office of this Paper.

MISCELLANEOUS.

LOANS of £100 to £300 at Two per cent. per annum interest granted to Tradesmen in the second or third year of their business, trading in the City of London or within 5 miles thereof, and under 40 years of age. Unquestionable sureties required. Apply to Clerk of Wilson's Trust, Chamber of London, Guildhall, E.C.

CHEMIST'S Fittings.—Second-hand; large stock of high-class Drug Fittings, Piano Wall Cases, Dispensing Screens and Counters, Glass Counters, Counter Cases, Perfumery Cases and Desks, Counter Drawers; absolute bargains; cheapest house for Window Enclosures, Mirrors, Glass Shelves, Modern Shopfronts, Improvements, etc.; plans prepared; estimates free. Mills' Shopfront, Shopfitting, and Glass Facia Works, 163-165 Old Street, London, E.C. Phone, London Wall 550.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 267 Old Street, London, E.C.

SHOPFITTINGS (SECOND-HAND).—12-ft. Mahogany and Plate-glass Serving Counter, £9 10s.; Mahogany and Plate-glass Perfumery Showcase and Desk, Mirror back and Plate-glass shelves, 58s.; 8-ft. Mahogany and Bent Plate-glass Counter-case, with Display and Serving Shelves, £6 17s. 6d.; 10-ft. handsome Piano Wall Showcase, great bargain, £21; quantities of other cheap lines. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

McQUEEN'S A.B.C. System of Accounts; works out profit and loss account, balance sheet, etc., with guaranteed certainty; gives exactly what Surveyors of Taxes want, and is a remedy for over-assessment; practically automatic Bookkeeping; 12th edition. Particulars and testimonials free. McQueen & Co., Mount Road East, Leicester.

CHEMISTS' Fittings.—Silent Salesman, Glass Showcases of every description, Drugfittings, Dispensing-screens, Wall-cases, Glass-front Counters, Perfume-cases, Desks, Counter Drawers, Shelves, Mirrors, shop-soiled, second-hand, at lowest prices; don't decide till you get my estimate; you can't get better value; 30 years fitting Pharmacies. GEORGE COOK, The Chemists' Working Shopfitter, Catherine Street, City Road, London, E.C.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Beta-eucaine hydrochlor. or Liantral (67/29)
lactate (78/34)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Arsenoferratin tablets, 200 Styptol tablets, 80 (96/26)
(96/26) Thymol cryst., 4 lb. (94/9)
Phenazone, 4½ lb. (94/9)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

MARTINDALE'S Extra Pharmacopoeia, 16th edition, Vols. 1 and 2; new; 18s. 6d. the two. 98/10, Office of this Paper.

DENTAL.

DENTAL chair; iron; capital condition; £3 10s. cost £10; view, appointment. Burge, Paddington.

DRUGS AND CHEMICALS.

1 lb. ac. acet. sal. (B. D. H.). Offers, 98/101, Office of this Paper.
WHAT offers? ½ lb. bism. salicyl., ½ lb. ac. acetosalicyl., 7 lb. potas. chlor. crystals, 1 lb. ac. salicylic., 5j. terpin. hyd., 5j. butyl. chlor. hyd., 5j. thymol, 5j. atrop. pur. Henry Logsdail, King's Lynn.

MISCELLANEOUS.

WHAT offers? 1 oz. helmitol, 2 oz. eroci, metric weights, dispensing scales. Hasselby, Hastings.

ABOUT two gross white ink jars (new), various sizes; also about 28 lb. tin-foil, 4 by 5. Salter, 7 Strand, Dawlish.

OVERBOUGHT.—New Nutshell canteens; 3s. 6d., 5s. 6d. sizes, 2s. 8d., 4s. 2d.; two post paid. Neave, Chemist, Witney, Oxon.

ANSONIA nail-clippers, 4s. 3d. dozen; celluloid soap-cases, 4s. dozen; soldiers' steel mirrors, 7s. dozen; cash with order; £1 carriage paid. Beecroft, Stores, Avonmouth.

SURPLUS stock chemicals, drugs (these in original package and unopened only), packed goods, soaps, perfumes, sundries, etc. Delmas & Co., Burlington House, Hineckley Road, Nuncaton.

CHEMICAL balance. .0001 to 200 grms.; metric weights in plush case, .001 to 200 grms.. gold-plated and platinum; Purdy's electric centrifuge and accessories; what offers? Owen, Christchurch.

WANTED.

WANTED, P. J. Formulary. 98/100, Office of this Paper.

WANTED, B.P. castor oil in any quantity for cash. 54/27, Office of this Paper.

ANILINE dyes, large or any odd lots, for cash. Lean, Chemist, Burton-on-Trent.

WANTED, Coraloids. State number offered, size, and price, Marsh, Fleet Street, Torquay.

WANTED, dispensing scales; new regulation, agate bearings; state maker. McMullan, Chemist, Larne.

MOULDS.—Bougie, ear-conc, pessary, suppository. State shape and lowest price, Shaw, Chemist, Oakes, Huddersfield.

WANTED, two copies of Maw's List. State how much will take for them, 93/4, Office of this Paper.

WERNER & PFLEIDERER'S mixing machine; steam jacketed. State size and price to 52/30, Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.



with Quinine
Requires NO license

when sold by Registered Chemists and Druggists.

The Excise Authorities and the Law say so!

On Saturday, July 4, 1914, the Recorder at the Bradford Quarter Sessions **ALLOWED AN APPEAL** by Mr. Oliver Hobson, manager to Messrs. Savage & Co., Ltd., Chemists, of 658 Manchester Road, Bradford, against the decision of the Bradford Justices who had previously fined Mr. Hobson £3, and costs, for selling Wincarnis with Quinine without a wine license. In allowing the appeal, with costs, the Recorder said that **the conviction was wrong.**

It is, therefore, an established fact that
NO LICENSE IS REQUIRED
 to sell
WINCARNIS with QUININE

Owing to the increase in Patent Medicine Stamp Duty, we have been compelled to make a slight advance in the prices of Wincarnis with Quinine.

**NEW
PRICES**

TO THE TRADE.

Pints, now ... 25/- per doz.
 Quarts „ ... 40/- „

TO THE PUBLIC.

Pints now ... 2/6 per bottle.
 Quarts „ ... 4/- „

HOW IS YOUR STOCK?

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

The best and most profitable

CEREGEN PROTEID
PHOSPHATE

LYSOL "BELL" PATHONE

British Made & British Owned

JOHN BELL, HILLS & LUCAS, LTD.
Oxford Works, Tower Bridge Road, London, S.E.

DISINFECTANTS

Supplied in Fluid and Powder Form. With guarantee of Tar Acids or Co-efficiency.

LIQUID SHEEP DIP

Paste and Block Form also supplied. All approved for Sheep Scab.

Chemists and Druggists may offer the above goods under their own name and brand.

"IALINE"-LYSOL, BRITISH-MADE.

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A guarantee **Cadbury's Cocoa Essence** (unflavoured)
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